# CDX-L600X/L630X

# SERVICE MANUAL

**Ver 1.1 2003. 08**

*US Model*
*Canadian Model*
*CDX-L600X*
*E Model*
*CDX-L630X*

Photo: CDX-L600X

• The tuner and CD sections have no adjustments.

**AUDIO POWER SPECIFICATIONS (US Model)**
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

| | |
|---|---|
| Model Name Using Similar Mechanism | CDX-L300/L460X |
| CD Drive Mechanism Type | MG-393XA-121//K |
| Optical Pick-up Name | KSS-720A |

## SPECIFICATIONS

### CD player section

| | |
|---|---|
| Signal-to-noise ratio | 90 dB |
| Frequency response | 10 – 20,000 Hz |
| Wow and flutter | Below measurable limit |
| Laser Diode Properties (US, Canadian Model) | |
| Material | GaAlAs |
| Wavelength | 780 nm |
| Emission Duration | Continuous |
| Laser output power | Less than 44.6 µW* |

* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.*

### Tuner section

**FM**

| | |
|---|---|
| Tuning range | 87.5 – 107.9 MHz |
| Antenna terminal | External antenna connector |
| Intermediate frequency | 10.7 MHz/450 kHz |
| Usable sensitivity | 8 dBf |
| Selectivity | 75 dB at 400 kHz |
| Signal-to-noise ratio | 66 dB (stereo), 72 dB (mono) |
| Harmonic distortion at 1 kHz | 0.6% (stereo), 0.3% (mono) |
| Separation | 35 dB at 1 kHz |
| Frequency response | 30 – 15,000 Hz |

**AM**

| | |
|---|---|
| Tuning range | 530 – 1,710 kHz |
| Antenna terminal | External antenna connector |
| Intermediate frequency | 10.7 MHz/450 kHz |
| Sensitivity | 30 µV |

### Power amplifier section

| | |
|---|---|
| Outputs | Speaker outputs (sure seal connectors) |
| Speaker impedance | 4 – 8 ohms |
| Maximum power output | 52 W × 4 (at 4 ohms) |

### General

| | |
|---|---|
| Outputs | Audio outputs<br>Power antenna relay control lead<br>Power amplifier control lead |
| Input | Telephone ATT control lead |
| Tone controls | Bass ±10 dB at 62 Hz (CDX-L600X)<br>Bass ±8 dB at 100 Hz (CDX-L630X)<br>Treble ±10 dB at 16 kHz (CDX-L600X)<br>Treble ±8 dB at 10 kHz (CDX-L630X) |
| Loudness | +8 dB at 100 Hz<br>+2 dB at 10 kHz |
| Power requirements | 12 V DC car battery (negative ground) |
| Dimensions | Approx. 178 × 50 × 176 mm (7 1/8 × 2 × 7 in.) (w/h/d) |
| Mounting dimensions | Approx. 182 × 53 × 161 mm (7 1/4 × 2 1/8 × 6 3/8 in.) (w/h/d) |
| Mass | Approx. 1.2 kg (2 lb. 10 oz.) |
| Supplied accessories | Parts for installation and connections (1 set)<br>Front panel case (1)<br>Card remote commander RM-X114 |

### Note

This unit cannot be connected to a digital preamplifier or an equalizer.

*Design and specifications are subject to change without notice.*

## FM/AM COMPACT DISC PLAYER

**9-873-403-02**
2003H04-1
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**Sony Corporation**
**e Vehicle Company**
**Published by Sony Engineering Corporation**

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## SERVICE NOTES

### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

### NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

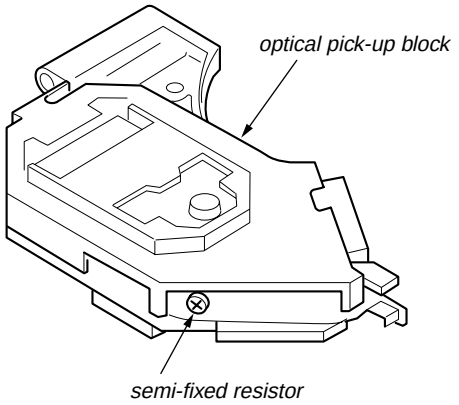
### Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

**CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.




### TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2501-063-1)
CD-RW test disc TCD-W082L (Part No. J-2501-063-2)

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

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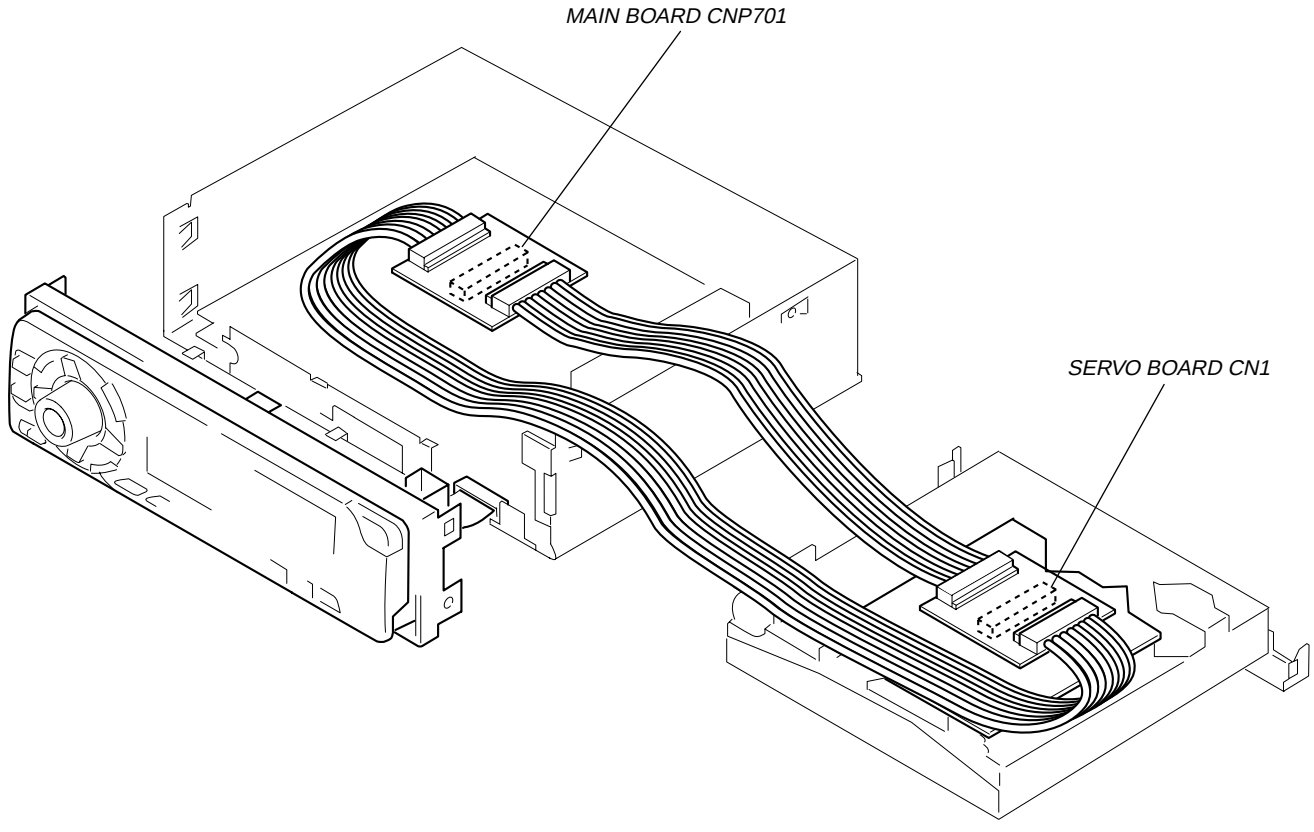
**EXTENSION CABLE AND SERVICE POSITION**

When repairing or servicing this set, connect the jig (extension cable) as shown below.

• Connect the MAIN board (CNP701) and the SERVO board (CN1) with the extension cable (Part No. J-2502-062-1).

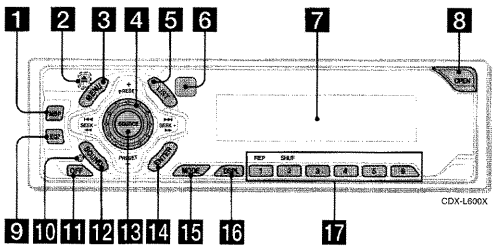


# SECTION 1
# GENERAL

This section is extracted from instruction manual.

## Location of controls (CDX-L600X)

Refer to the pages listed for details.
CD : During Playback RADIO : During radio reception MENU : During menu mode



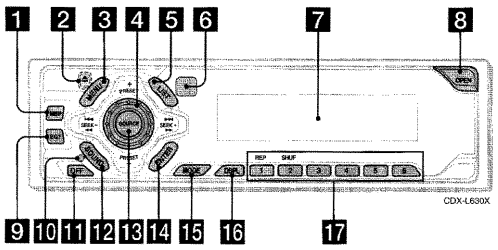

1 MBP (My Best sound Position) button 17
2 ⏏ (eject) button (located on the front side of the unit, behind the front panel) 9
3 MENU button 9, 11, 12, 13, 16, 18
4 Volume control dial
5 LIST button 13
6 Receptor for the card remote commander
7 Display window
8 OPEN button 8, 9
9 EQ7 button 17
10 RESET button (located on the front side of the unit, behind the front panel) 7
11 OFF (Stop/Power off) button* 8, 9
12 SOUND button 15, 17
13 SOURCE (Power on/Radio/CD) button 8, 9, 11, 12, 17
14 ENTER button
RADIO 13
MENU 9, 11, 12, 13, 16, 18
15 MODE button 11, 12
16 DSPL (display mode change) button 10, 13
17 Number buttons
CD
① REP 10
② SHUF 10
RADIO 11, 12

* **Warning when installing in a car without an ACC (accessory) position on the ignition key switch**
Be sure to press (OFF) on the unit for 2 seconds to turn off the clock display after turning off the engine.
Otherwise, the clock display does not turn off and this causes battery drain.



## Location of controls (CDX-L630X)

Refer to the pages listed for details.
CD : During Playback RADIO : During radio reception MENU : During menu mode

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CD
① REP 10
② SHUF 10
RADIO 11, 12

* **Warning when installing in a car without an ACC (accessory) position on the ignition key switch**
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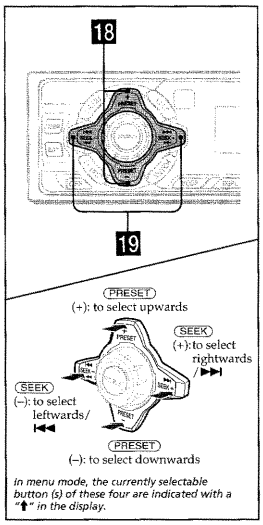
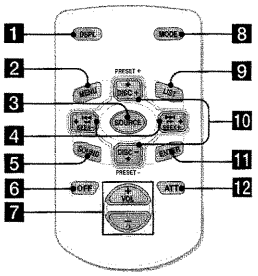



*In menu mode, the currently selectable button (s) of these four are indicated with a "⬆" in the display.*

18 PRESET buttons (+/–)
RADIO 11, 13
MENU 9, 11, 12, 13, 16, 18
19 SEEK buttons (–/+) 15
CD 9
RADIO 11, 12
MENU 9, 12, 16, 18

***Card remote commander RM-X114***




**The corresponding buttons of the card remote commander control the same functions as those on this unit.**

1 DSPL button
2 MENU button
3 SOURCE button
4 SEEK (⬅/➡) buttons
5 SOUND button
6 OFF button
7 VOL (+/–) buttons
8 MODE button
9 LIST button
10 PRESET (⬆/⬇) buttons
11 ENTER button
12 ATT button

*Note*
*If the unit is turned off by pressing (OFF) for 2 seconds, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.*

*Tip*
*Refer to "Replacing the lithium battery" for details on how to replace the batteries (page 19).*



### Notes on CD-R/CD-RW discs

• You can play CD-Rs (recordable CDs)/CD-RWs (rewritable CDs) designed for audio use on this unit.
Look for these marks to distinguish CD-Rs/CD-RWs for audio use.

COMPACT disc DIGITAL AUDIO Recordable
COMPACT disc DIGITAL AUDIO ReWritable

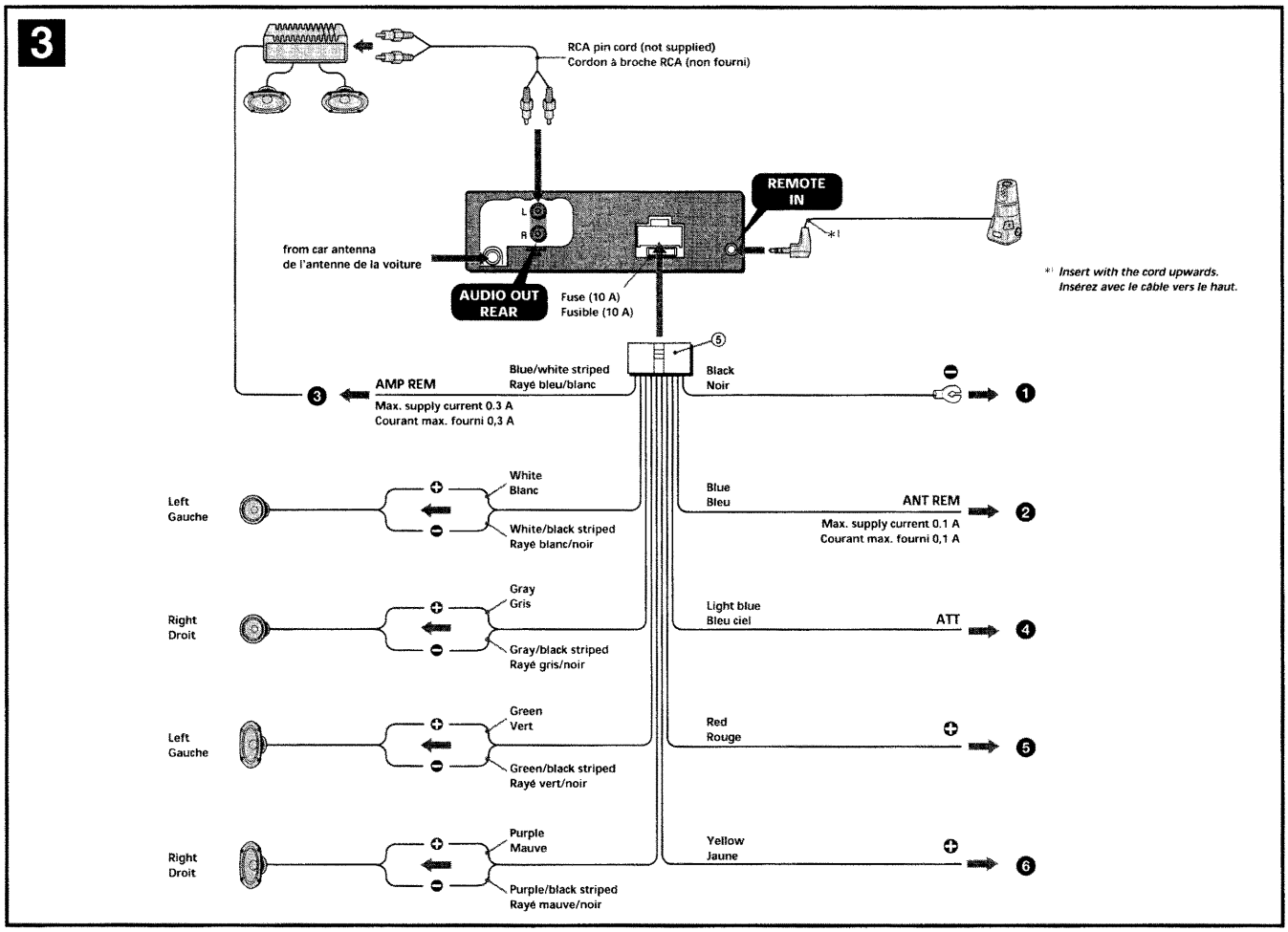
These marks denote that a disc is not for audio use.

COMPACT disc Recordable
COMPACT disc ReWritable

• Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
• You cannot play a CD-R/CD-RW that is not finalized*.

* *A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.*

## Connections (CDX-L600X)




## Connection diagram (3)

❶ **To a metal surface of the car**
*First connect the black ground lead, then connect the yellow and red power input leads.*

❷ **To the power antenna control lead or power supply lead of antenna booster amplifier**
***Notes***
- *It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
*This connection is only for amplifiers. Connecting any other system may damage the unit.*

❹ **To the interface cable of a car telephone**

❺ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**
***Notes***
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times.*
*Be sure to connect the black ground lead to it first.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

❻ **To the +12 V power terminal which is energised at all times**
*Be sure to connect the black ground lead to it first.*

***Notes on the control and power supply leads***
- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.*
- *A power antenna without relay box cannot be used with this unit.*

***Memory hold connection***
*When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.*

***Notes on speaker connection***
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker cords to each other.*

## Schéma de raccordement (3)

❶ **à un point métallique de la voiture**
*Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.*

❷ **vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne**
***Remarques***
- *Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir "Remarques sur les fils de commande et d'alimentation".*

❸ **au niveau du AMP REMOTE IN de l'amplificateur de puissance en option**
*Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.*

❹ **vers le cordon de liaison d'un téléphone de voiture**

❺ **à la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires**
***Remarques***
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.*
*Raccordez d'abord le fil de masse noir.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir "Remarques sur les fils de commande et d'alimentation".*

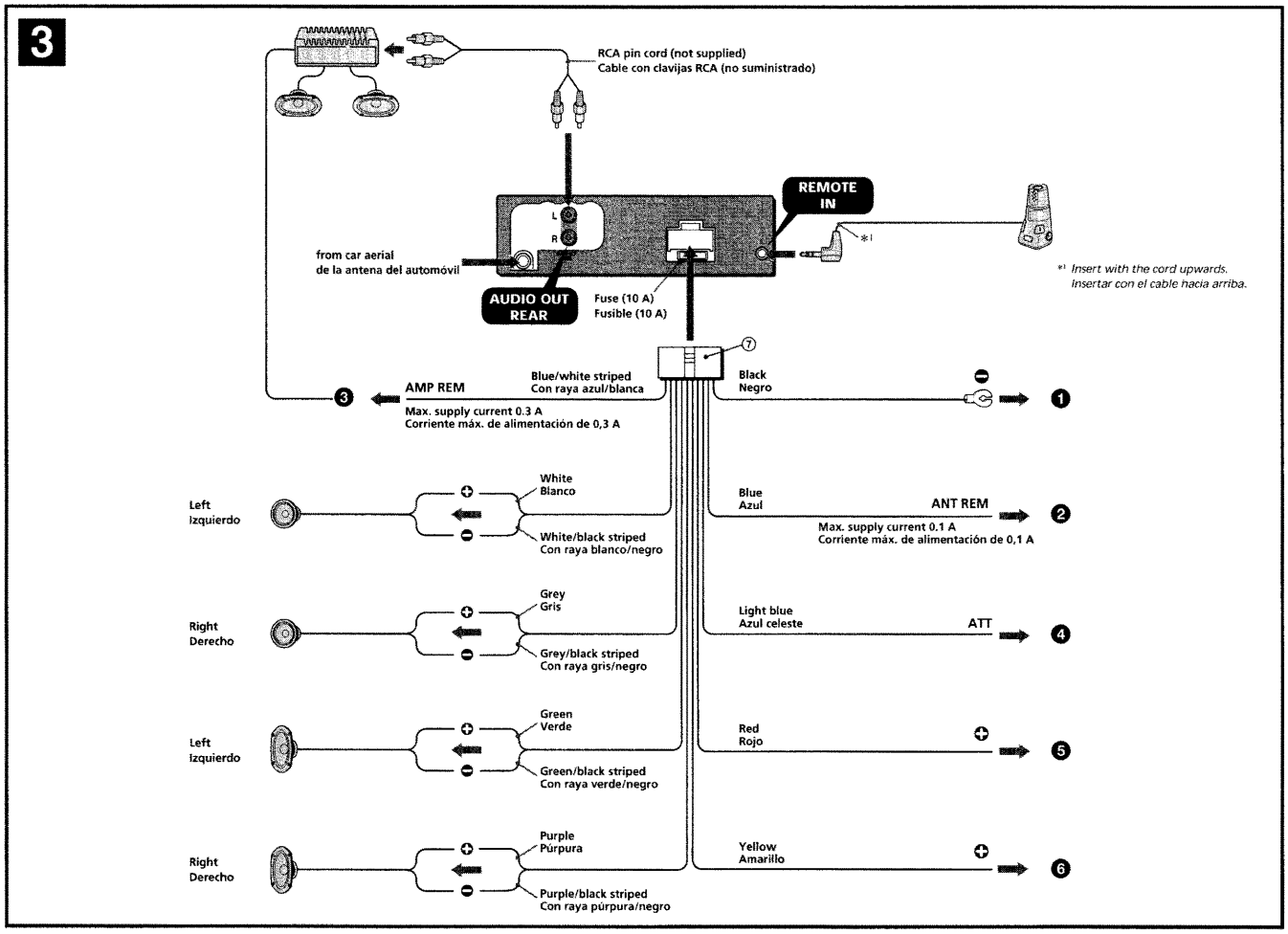
❻ **à la borne +12 V qui est alimentée en permanence**
*Raccordez d'abord le fil de masse noir.*

***Remarques sur les fils de commande et d'alimentation***
- *Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de + 12 V CC lorsque vous mettez l'appareil sous tension.*
- *Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez la sortie de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) au bornier de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

***Raccordement pour la conservation de la mémoire***
*Lorsque le fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.*

***Remarques sur le raccordement des haut-parleurs***
- *Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.*
- *Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité de manipulation adéquate pour éviter de les endommager.*
- *Ne raccordez pas les bornes du système de haut-parleur au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne raccordez pas le câble de masse de cet appareil à la borne négative (–) de l'enceinte.*
- *N'essayez pas de raccorder les haut-parleurs en parallèle.*
- *Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

## Connections (CDX-L630X)




## Connection diagram (3)

**1 To a metal surface of the car**
*First connect the black earth lead, then connect the yellow and red power input leads.*

**2 To the power aerial control lead or power supply lead of aerial booster amplifier**
***Notes***
- *It is not necessary to connect this lead if there is no power aerial or aerial booster, or with a manually-operated telescopic aerial.*
- *When your car has a built-in FM/AM aerial in the rear/side glass, see "Notes on the control and power supply leads."*

**3 To AMP REMOTE IN of an optional power amplifier**
*This connection is only for amplifiers. Connecting any other system may damage the unit.*

**4 To the interface cable of a car telephone**

**5 To the +12 V power terminal which is energised in the accessory position of the ignition key switch**
***Notes***
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times.*
  *Be sure to connect the black earth lead to it first.*
- *When your car has a built-in FM/AM aerial in the rear/side glass, see "Notes on the control and power supply leads."*

**6 To the +12 V power terminal which is energised at all times**
*Be sure to connect the black earth lead to it first.*

***Notes on the control and power supply leads***
- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without relay box cannot be used with this unit.*

***Memory hold connection***
*When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.*

***Notes on speaker connection***
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the earth lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker cords to each other.*

## Diagramas de conexión (3)

**1 A una superficie metálica del automóvil**
*Conecte primero el cable de masa negro, y después los cables amarillo y rojo de entrada de alimentación,para obtener información detallada.*

**2 Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de antena**
***Notas***
- *Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

**3 Para conectar a AMP REMOTE IN del amplificador de potencia opcional**
*Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.*

**4 Al cable de interfaz de un teléfono para automóvil**

**5 Al terminal de alimentación de +12 V que recibe energía en la posición de accesorios del interruptor de la llave de encendido**
***Notas***
- *Si no hay posición de accesorios, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción. Asegúrese de conectar primero el cable de masa negro.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

**6 Al terminal de alimentación de +12 V que recibe energía sin interrupción**
*Asegúrese de conectar primero el cable de masa negro.*

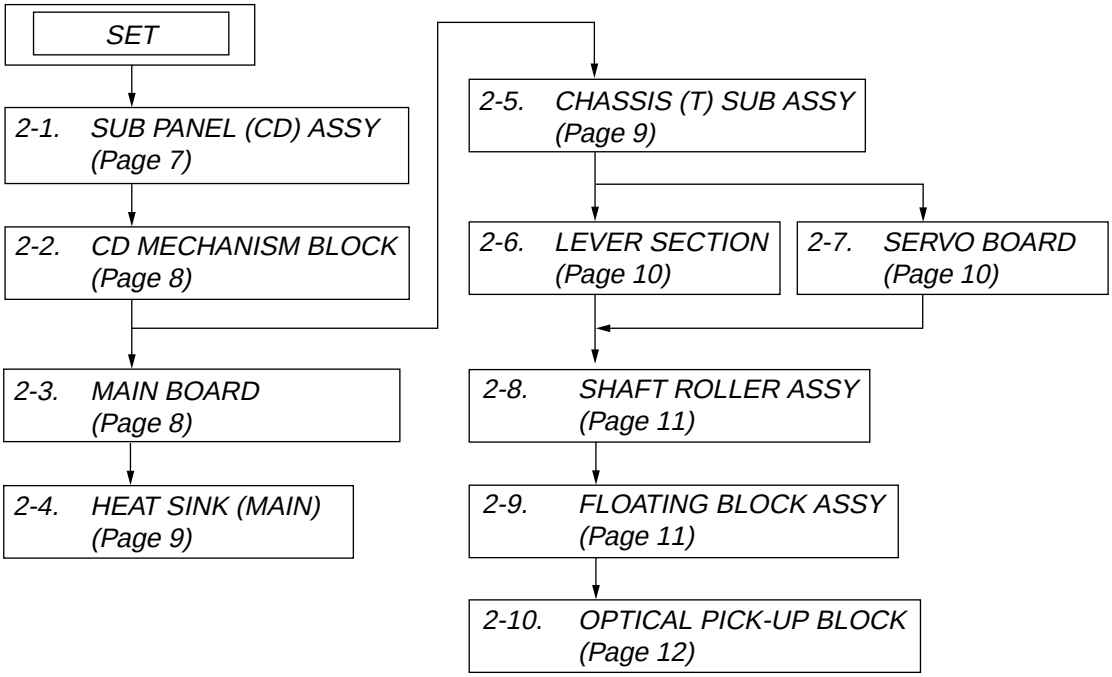
***Notas sobre los cables de control y de fuente de alimentación***
- *El conductor de control de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero/lateral, conecte el cable de control de antena motorizada (azul) o el cable de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener información detallada, consulte a su proveedor.*
- *Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.*

***Conexión para protección de la memoria***
*Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque ponga la llave de encendido en la posición OFF.*

***Notas sobre la conexión de los altavoces***
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.*
- *No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.*
- *No conecte el cable de puesta a tierra de esta unidad al terminal negativo (–) del altavoz.*
- *No intente conectar los altavoces en paralelo.*
- *No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.*
- *Para evitar fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si su unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.*
- *No conecte los cables de altavoz de la unidad entre sí.*

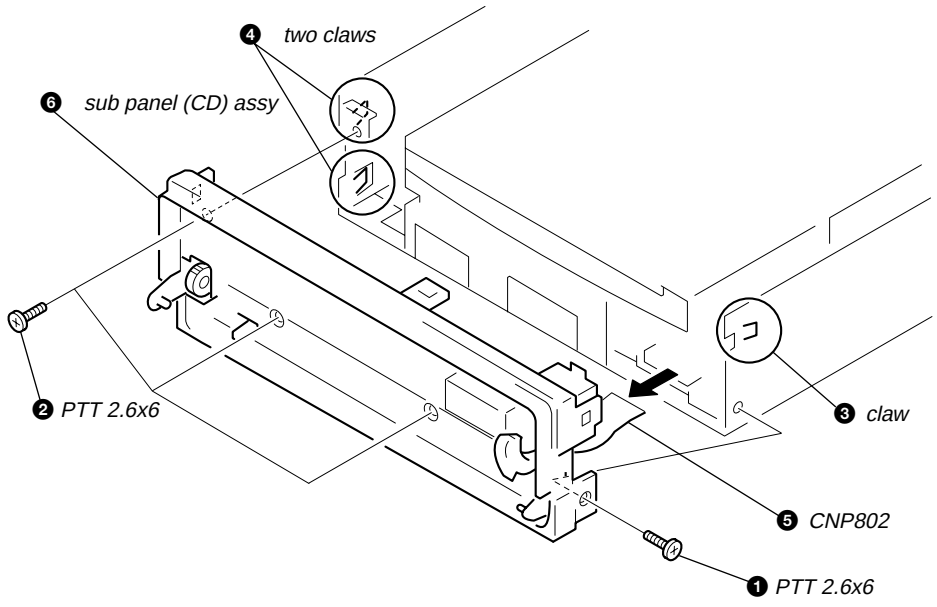
# SECTION 2
# DISASSEMBLY

**Note :** This set can be disassemble according to the following sequence.

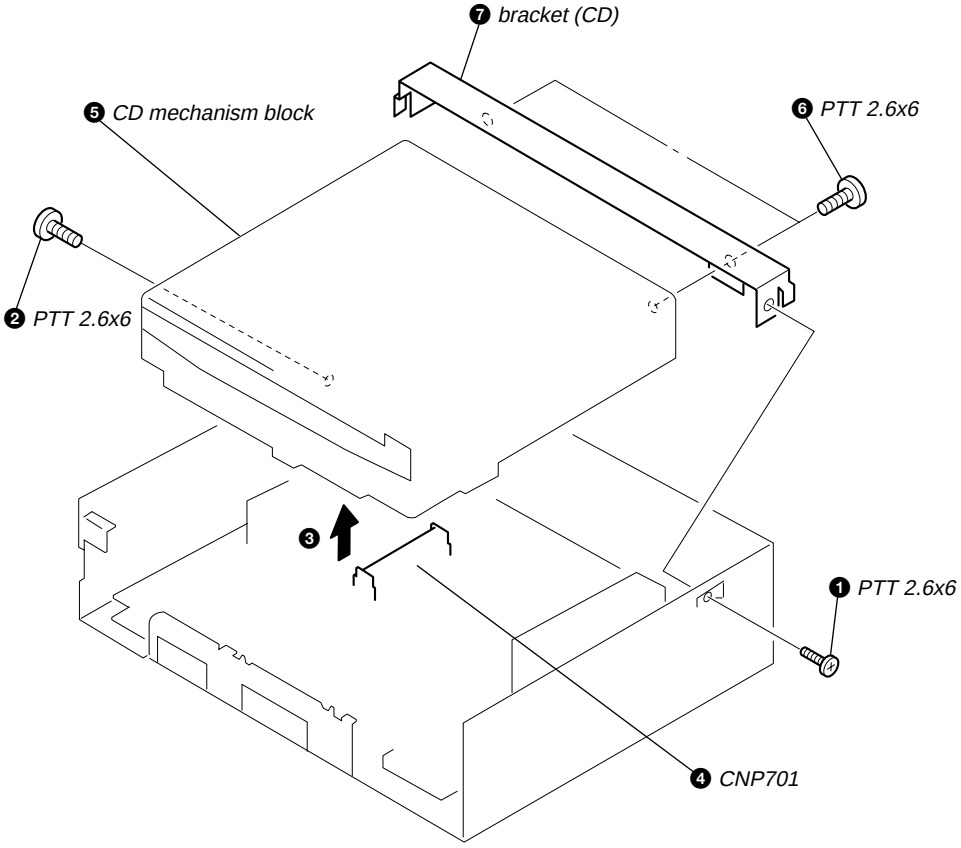

SET
2-1. SUB PANEL (CD) ASSY (Page 7)
2-2. CD MECHANISM BLOCK (Page 8)
2-3. MAIN BOARD (Page 8)
2-4. HEAT SINK (MAIN) (Page 9)
2-5. CHASSIS (T) SUB ASSY (Page 9)
2-6. LEVER SECTION (Page 10)
2-7. SERVO BOARD (Page 10)
2-8. SHAFT ROLLER ASSY (Page 11)
2-9. FLOATING BLOCK ASSY (Page 11)
2-10. OPTICAL PICK-UP BLOCK (Page 12)

**Note :** Follow the disassembly procedure in the numerical order given.

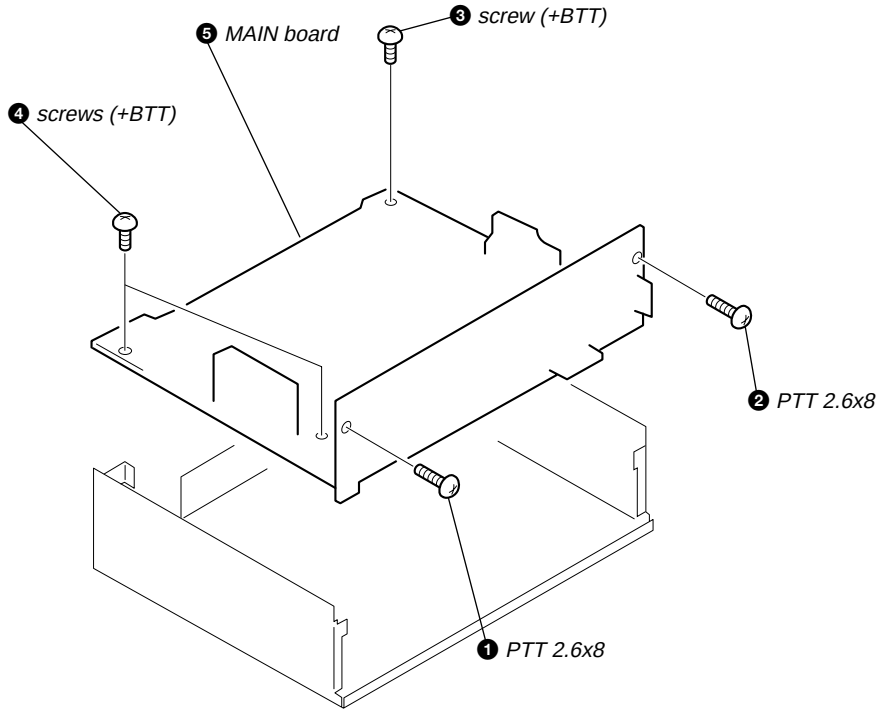
### 2-1. SUB PANEL (CD) ASSY



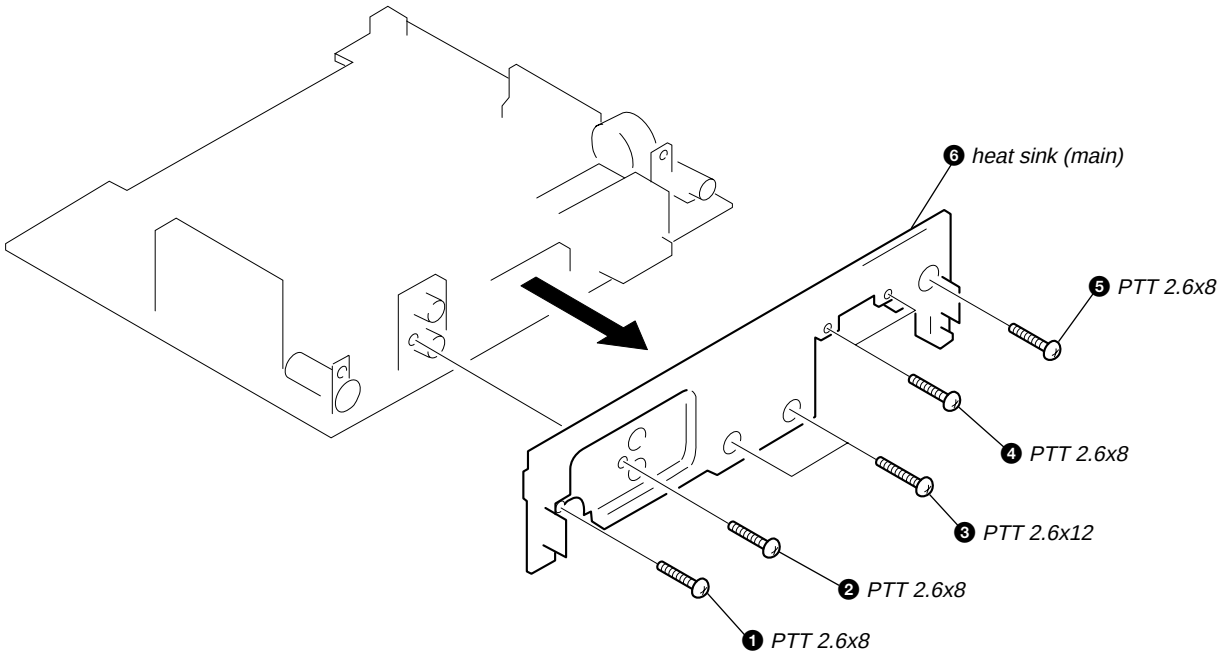
## 2-2. CD MECHANISM BLOCK



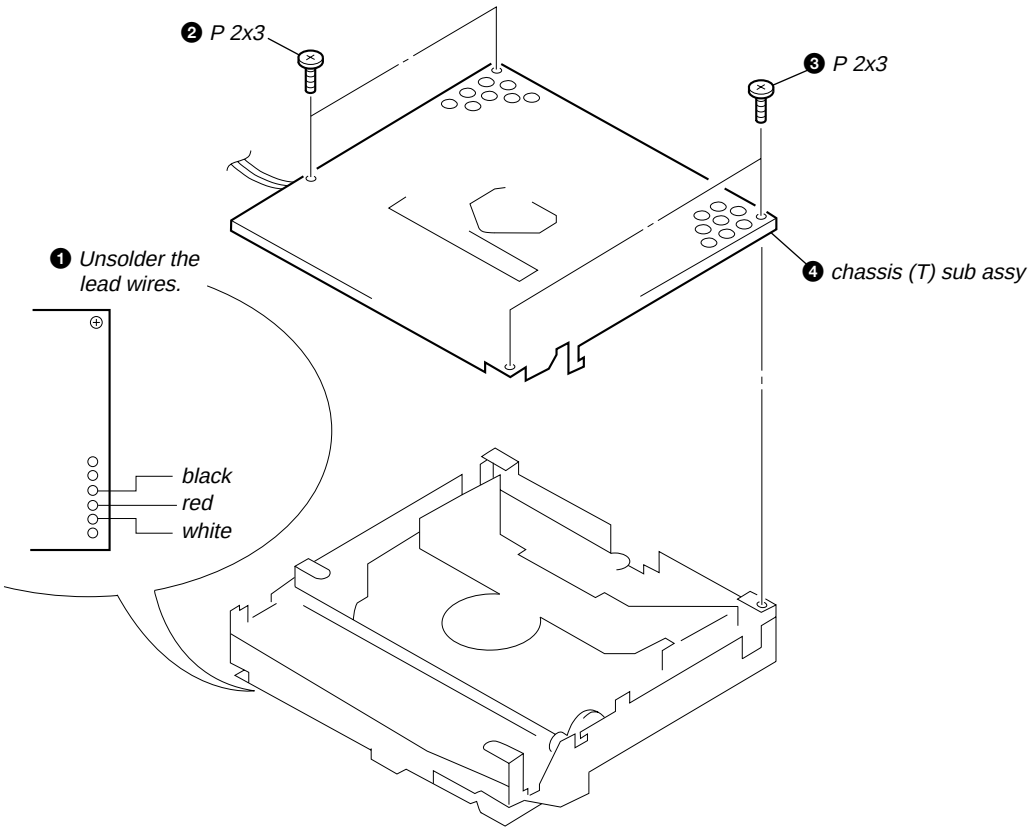

## 2-3. MAIN BOARD



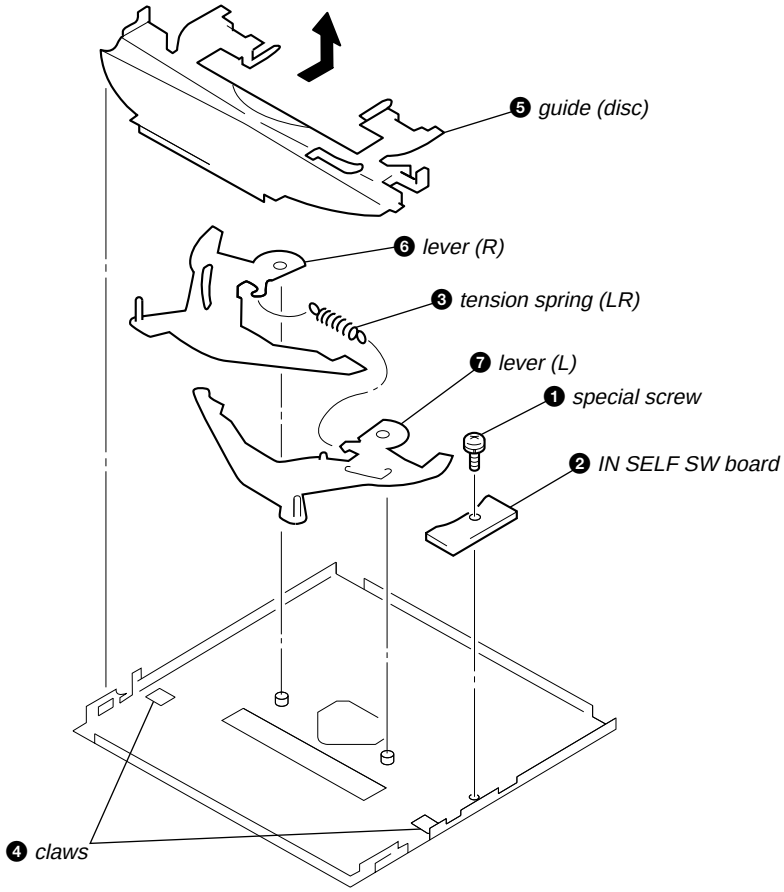
## 2-4. HEAT SINK (MAIN)



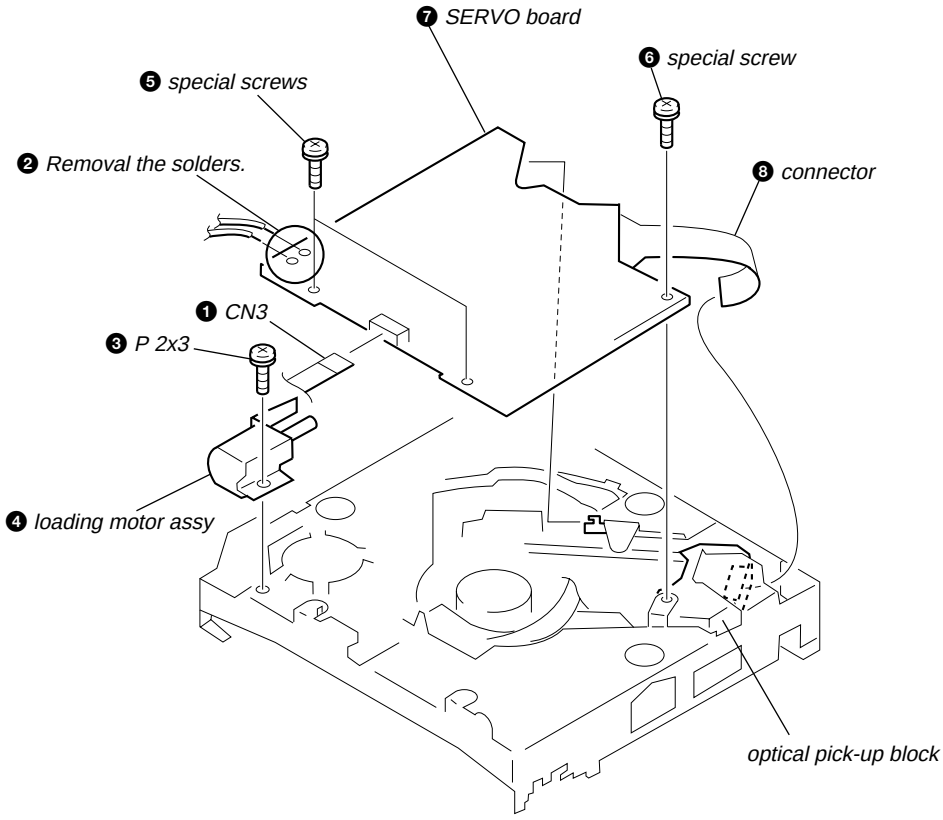

## 2-5. CHASSIS (T) SUB ASSY



## 2-6. LEVER SECTION




## 2-7. SERVO BOARD



## 2-8. SHAFT ROLLER ASSY

• When installing, take note of the positions arm (roller) and washers. (Fig. 1)

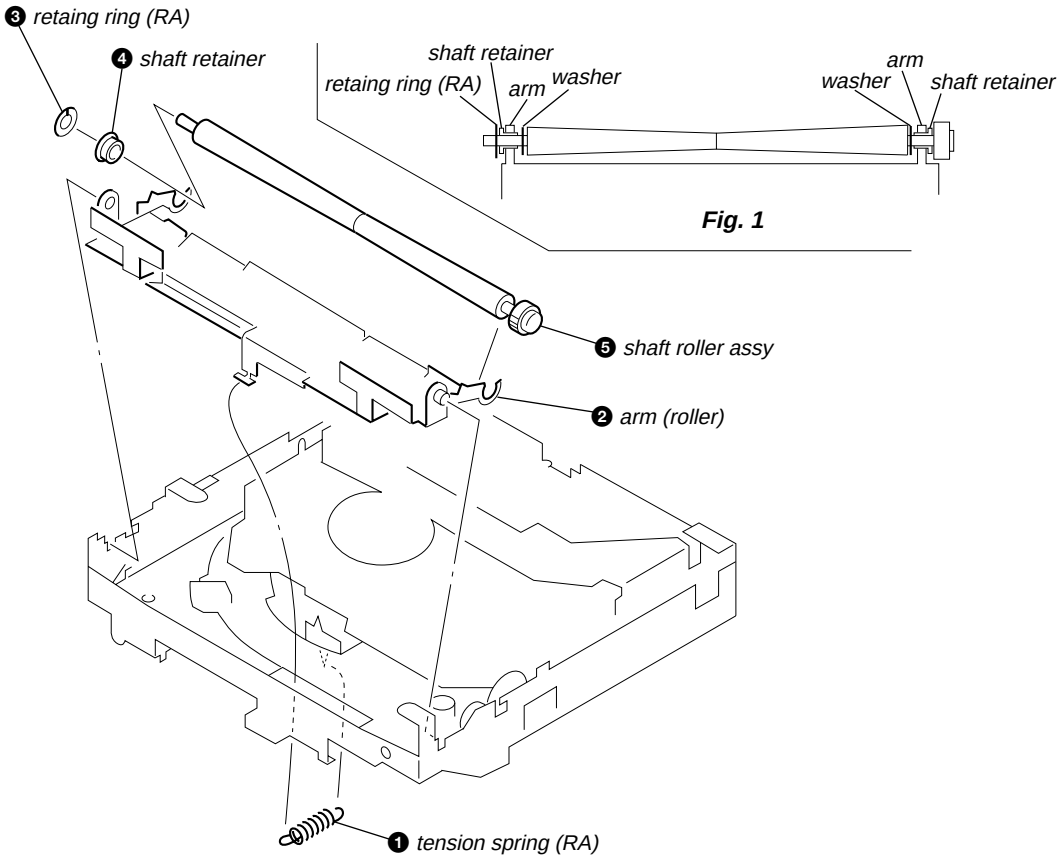
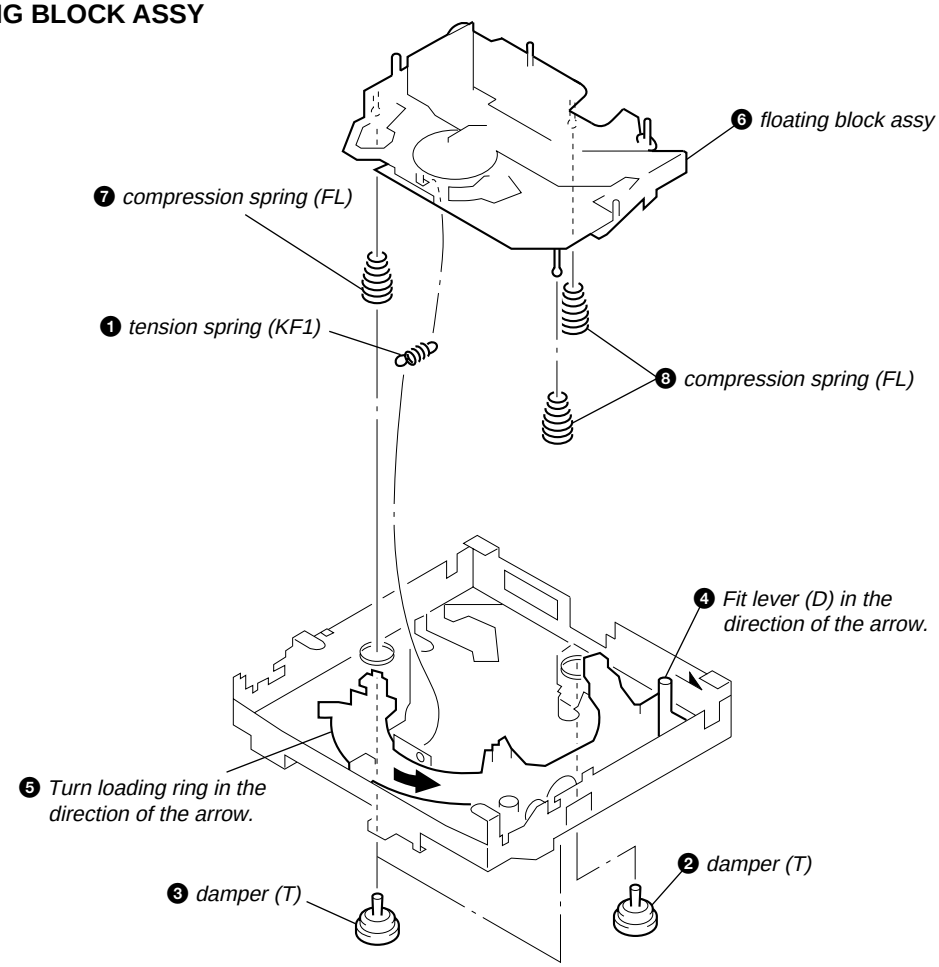
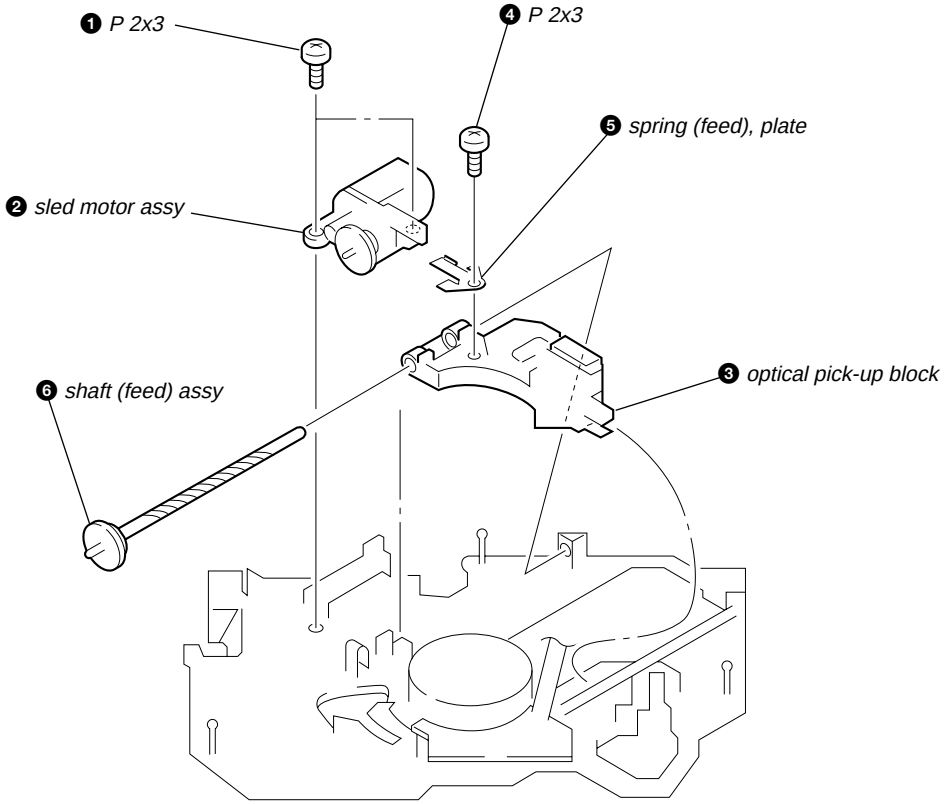



***Fig. 1***

## 2-9. FLOATING BLOCK ASSY


❻ floating block assy
❼ compression spring (FL)
❶ tension spring (KF1)
❽ compression spring (FL)
❹ Fit lever (D) in the direction of the arrow.
❺ Turn loading ring in the direction of the arrow.
❷ damper (T)
❸ damper (T)

## 2-10. OPTICAL PICK-UP BLOCK



# SECTION 3
# DIAGRAMS

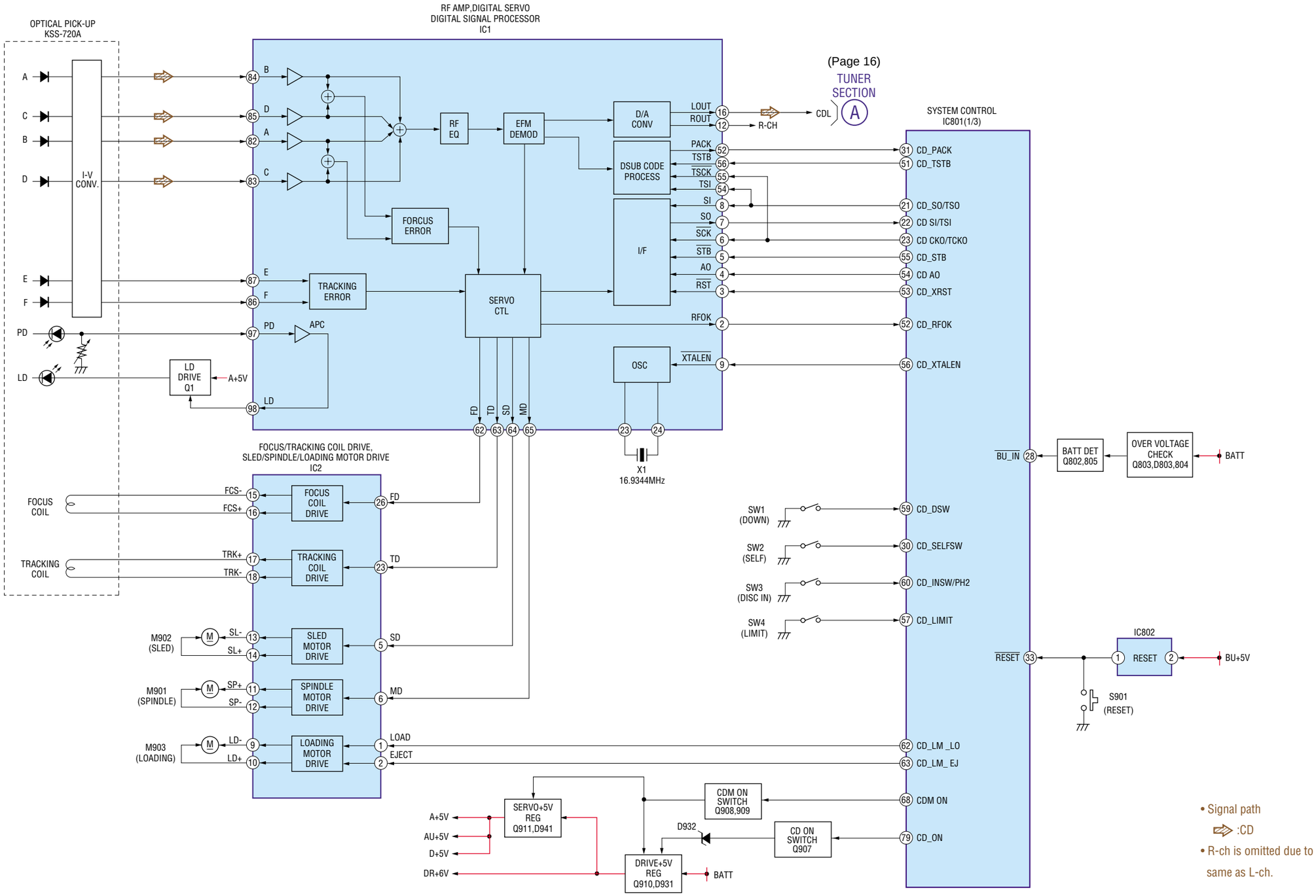
## 3-1. IC PIN DESCRIPTION

**• IC801 MN101C49KTG1 (SYSTEM CONTROL)**

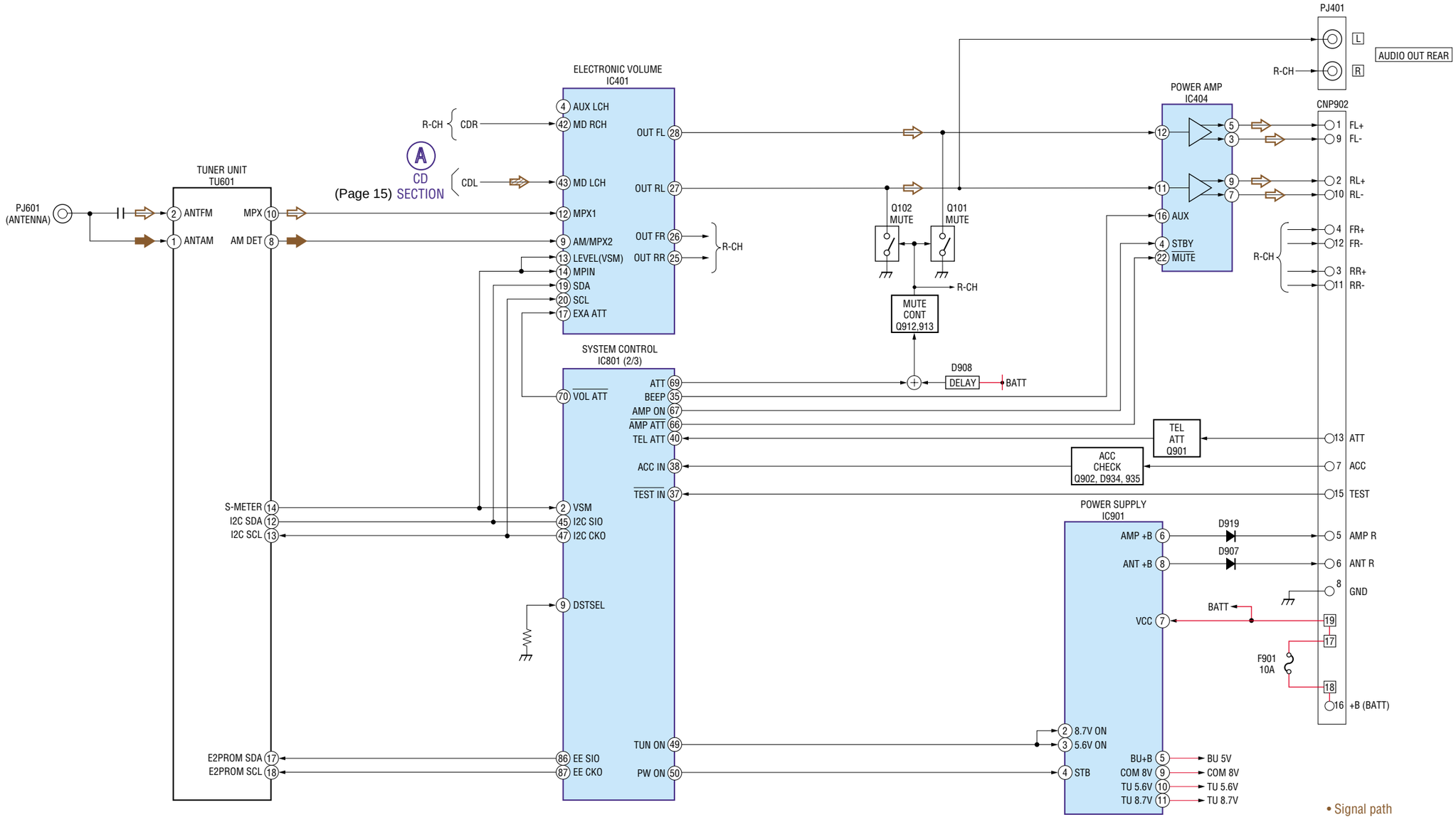
| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 1 | VREF– | — | Ground for A/D converter power supply |
| 2 | VSM | I | S-meter voltage detection signal input from tuner unit (TU601) |
| 3 | NIL | I | Connect to ground. |
| 4 | KEYIN1 | I | Key signal input |
| 5 | KEYIN0 | I | Key signal input |
| 6 | RC IN0 | I | Rotary commander key signal input from remote in jack (CNP801) |
| 7, 8 | NIL | I | Not used. (Connect to ground.) |
| 9 | DSTSEL | I | Destination set up detection signal input (“L”: CDX-L600X, “H”: CDX-L630X) |
| 10 | VREF+ | — | A/D converter power supply |
| 11 | VDD | — | Power supply (+5 V) input pin |
| 12 | OSCOUT | O | High speed clock signal output (18.432 MHz) |
| 13 | OSCIN | I | High speed clock signal input (18.432 MHz) |
| 14 | VSS | — | Ground for power supply |
| 15 | XIN | I | Low speed clock signal input (32.768 kHz) |
| 16 | XOUT | O | Low speed clock signal output (32.768 kHz) |
| 17 | MMOD | I | Memory mode select signal input (Input to “Low” (single chip mode).) (Connect to ground.) |
| 18 | LCDSO | O | LCD serial data signal output to LCD driver (IC501) |
| 19 | LCDCE | O | LCD chip enable signal output to LCD driver (IC501) |
| 20 | LCDCKO | O | LCD serial clock signal output to LCD driver (IC501) |
| 21 | CD SO/TSO | O | CD servo IC serial data signal output |
| 22 | CD SI/TSI | I | CD servo IC serial data signal input |
| 23 | CD CKO/TCKO | O | CD servo IC serial clock signal output |
| 24 | $\overline{\text{SYSRST}}$ | O | System reset signal output to bus interface (IC803) |
| 25 | $\overline{\text{BUS ON}}$ | O | Bus on signal output to bus interface (IC803) |
| 26 | KEYACK | I | Key acknowledge detection signal input |
| 27 | NIL | I | Not used. (Connect to ground.) |
| 28 | $\overline{\text{BU IN}}$ | I | Back up current detection signal input |
| 29 | SIRCS | I | Remote signal input from remote control receiver (IC502) |
| 30 | CD SELFSW | I | CD mechanism self load position detection switch signal input from self switch (SW2) |
| 31 | CD PACK | I | CD text pack sync signal input from CD servo (IC1) |
| 32 | NIH | I | Connect to power supply. |
| 33 | $\overline{\text{RESET}}$ | I | microcomputer reset signal input from reset IC (IC802) “L”: reset |
| 34 | $\overline{\text{NOSE SW}}$ | I | Front panel attachment detection signal input from nose detect switch (S902) “L”: ON |
| 35 | BEEP | O | Beep signal output to power amp (IC404) |
| 36 | NCO | O | Not used. (Open) |
| 37 | $\overline{\text{TESTIN}}$ | I | Test mode detection signal input |
| 38 | $\overline{\text{ACCIN}}$ | I | Accessory power supply detection signal input |
| 39 | NCO | O | Not used. (Open) |
| 40 | TELATT | I | Telephone ATT detection signal input |
| 41 | NIH | I | Connect to power supply. |
| 42 | BUSSO | O | Sony-Bus serial data signal output to bus interface (IC803) |
| 43 | BUSSI | I | Sony-Bus serial data signal input from bus interface (IC803) |
| 44 | BUSCKO | O | Sony-Bus serial clock signal output to bus interface (IC803) |
| 45 | I2CSIO | I/O | I2C bus serial data signal input/output |
| 46 | NCO | O | Not used. (Open) |
| 47 | I2CCKO | O | I2C bus serial clock signal output |
| 48 | NCO | O | Not used. (Open) |
| 49 | TUNON | O | Tuner power supply control signal output to power supply (IC901) |
| 50 | PW ON | O | System power supply control signal output to power supply (IC901) |

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 51 | CD TSTB | O | CD text parameter strob signal output to servo IC (IC1) |
| 52 | CD RFOK | I | RF OK signal input from servo IC (IC1) |
| 53 | CD XRST | O | Reset signal output to servo IC (IC1) |
| 54 | CD A0 | O | Command/parameter identification signal output to servo IC (IC1)<br>"L": Command, "H": Parameter |
| 55 | CD STB | O | Data strob signal output to servo IC (IC1) |
| 56 | CD XTALEN | O | Crystal oscillation control signal output to servo IC (IC1) |
| 57 | CD LIMIT | I | CD Mechanism in-limit switch signal input from limit switch (SW3) |
| 58 | CD PH1 | I | CD Mechanism PH1 detection signal input Not used in this set. |
| 59 | CD DSW | I | CD Mechanism down switch signal input from down switch (SW4) |
| 60 | CD INSW/PH2 | I | CD Mechanism disc-in switch detection signal input from disc-in switch (SW1) |
| 61 | CD PH3 | I | CD Mechanism PH3 detection signal input Not used in this set. |
| 62 | CD LM LO | O | CD Mechanism loading motor control signal output to loading motor drive (IC2) |
| 63 | CD LM EJ | O | CD Mechanism eject motor control signal output to loading motor drive (IC2) |
| 64, 65 | NCO | O | Not used. (Open) |
| 66 | $\overline{\text{AMPATT}}$ | O | Power amp ATT control signal output to power amp (IC404) |
| 67 | AMPON | O | Power amp standby control signal output to power amp (IC404) |
| 68 | CDM ON | O | CD mechanism deck power supply control signal output |
| 69 | ATT | O | System ATT control signal output |
| 70 | $\overline{\text{VOLATT}}$ | O | Electrical volume ATT control signal output to electrical volume (IC401) |
| 71 – 75 | NCO | O | Not used. (Open) |
| 76 | 4VPRE | I | Pre-out menu selection set up signal input |
| 77, 78 | NCO | O | Not used. (Open) |
| 79 | CD ON | O | CD on signal output "H": Play, "L": Loading or standby |
| 80 – 85 | NCO | O | Not used. (Open) |
| 86 | EE SIO | I/O | EEPROM serial data signal input/output |
| 87 | EE CKO | O | EEPROM serial clock signal output |
| 88 | NCO | O | Not used. (Open) |
| 89 | FLASH W | I | Flash microcomputer write detection signal input "L": Write mode |
| 90 | NCO | O | Not used. (Open) |
| 91 | $\overline{\text{XKEYON}}$ | O | Key power supply control signal output |
| 92 | DOORIND | O | Sub panel power supply control signal output |
| 93 | ILLON | O | Illumination power supply control signal output |
| 94 | $\overline{\text{DOOR SW}}$ | I | Front panel open/close detection signal input "L": Close, "H": Open |
| 95 | DAVSS | — | Ground pin |
| 96 | RE IN1 | I | Rotary encoder signal input from rotary encoder (RE501) |
| 97 | RE IN0 | I | Rotary encoder signal input from rotary encoder (RE501) |
| 98 | RC IN1 | I | Rotary commander shift key signal input from remote in jack (CNP801)<br>"L": Shift key on |
| 99 | NCO | O | Not used. (Open) |
| 100 | DAVDD | — | Power supply pin (+5 V) |

## 3-2. BLOCK DIAGRAM — CD SECTION —

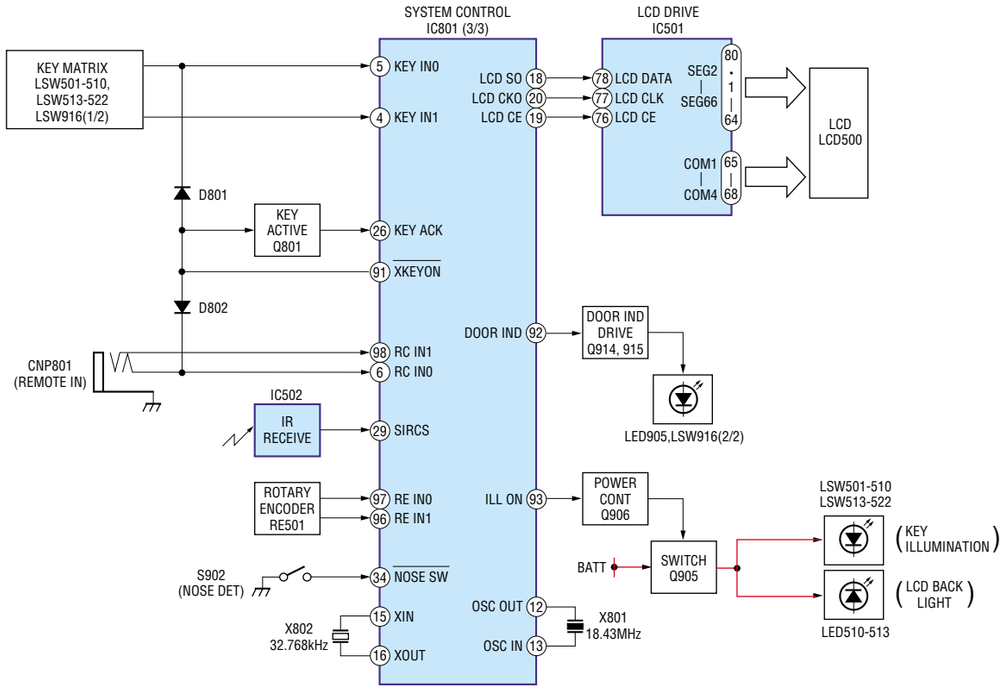


### 3-3. BLOCK DIAGRAM — TUNER SECTION —

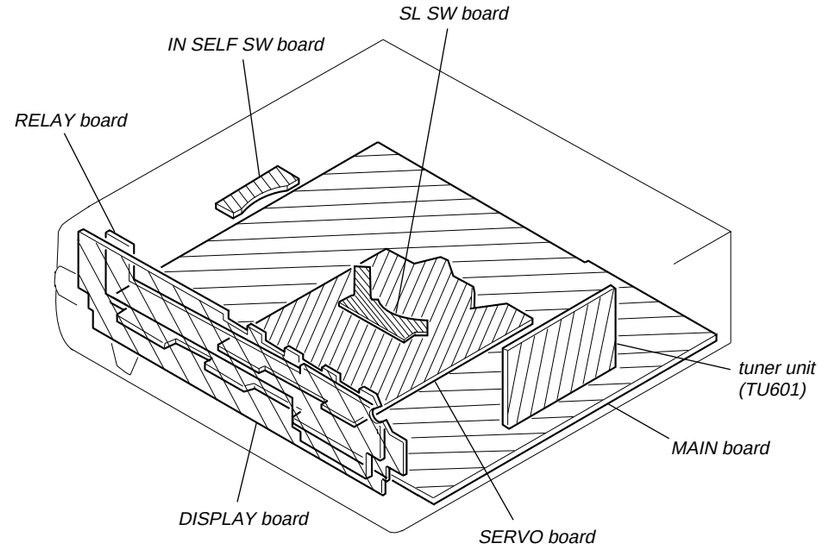



- Signal path
  - ⇨ :FM
  - ➡ :AM
  - ⇨ :CD
- R-ch is omitted due to same as L-ch.

## 3-4. BLOCK DIAGRAM — DISPLAY SECTION —



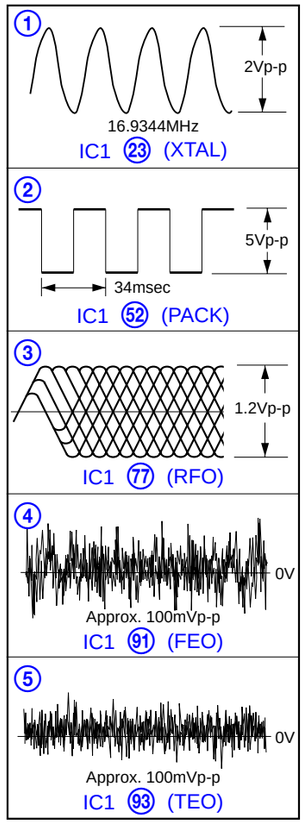

## 3-5. CIRCUIT BOARDS LOCATION



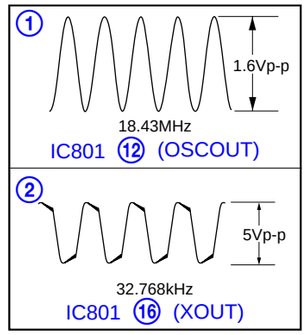

- **Waveforms**

**— Servo Board —**

(MODE: CD PLAY)




**— Main Board —**



## 3-6. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 17 for Circuit Boards Location.

**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.**
**(In addition to this, the necessary note is printed in each block.)**

**for schematic diagram:**

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : panel designation.

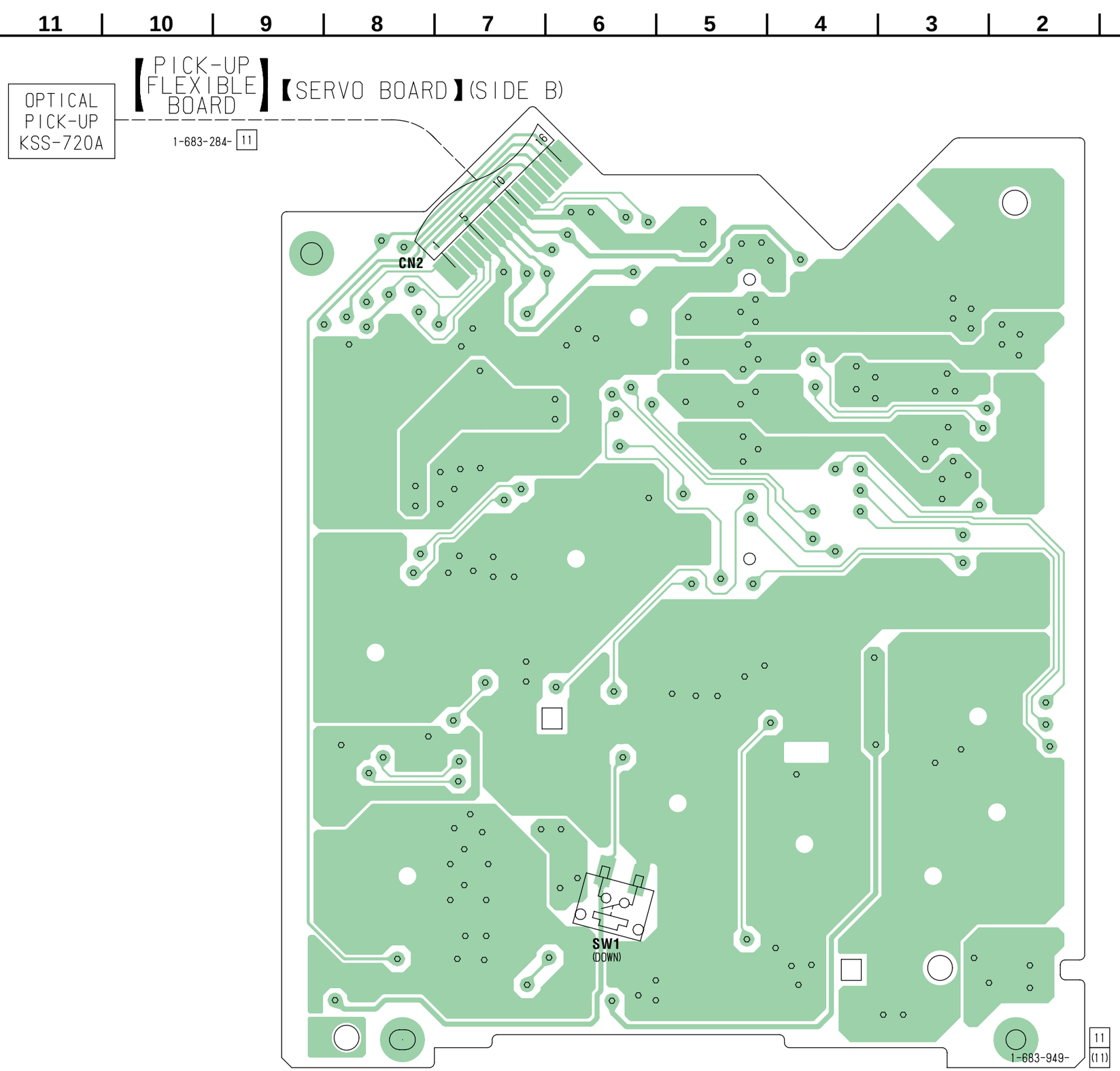
| **Note:** | **Note:** |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié. |

- ▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM
  - ⇨ : CD

**for printed wiring boards:**

- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

| Caution: | |
|---|---|
| Pattern face side: (Side B) | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side: (Side A) | Parts on the parts face side seen from the parts face are indicated. |



【SERVO BOARD】(SIDE A)

【IN SELF SW BOARD】

【SL SW BOARD】

【MOTOR FLEXIBLE BOARD】 1-823-641- 11

- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| IC1 | E-7 |
| IC2 | H-7 |
| Q1 | C-6 |

1 MAIN BOARD CNP701 (Page 21)

SW3 (DISC IN)

SW2 (SELF)

SW4 (LIMIT)

M901 (SPINDLE)

M902 (SLED)

M903 (LOADING)

CN1

CN3

CN13

IC1

IC2

Q1

X1

1-683-283- 11 (11)

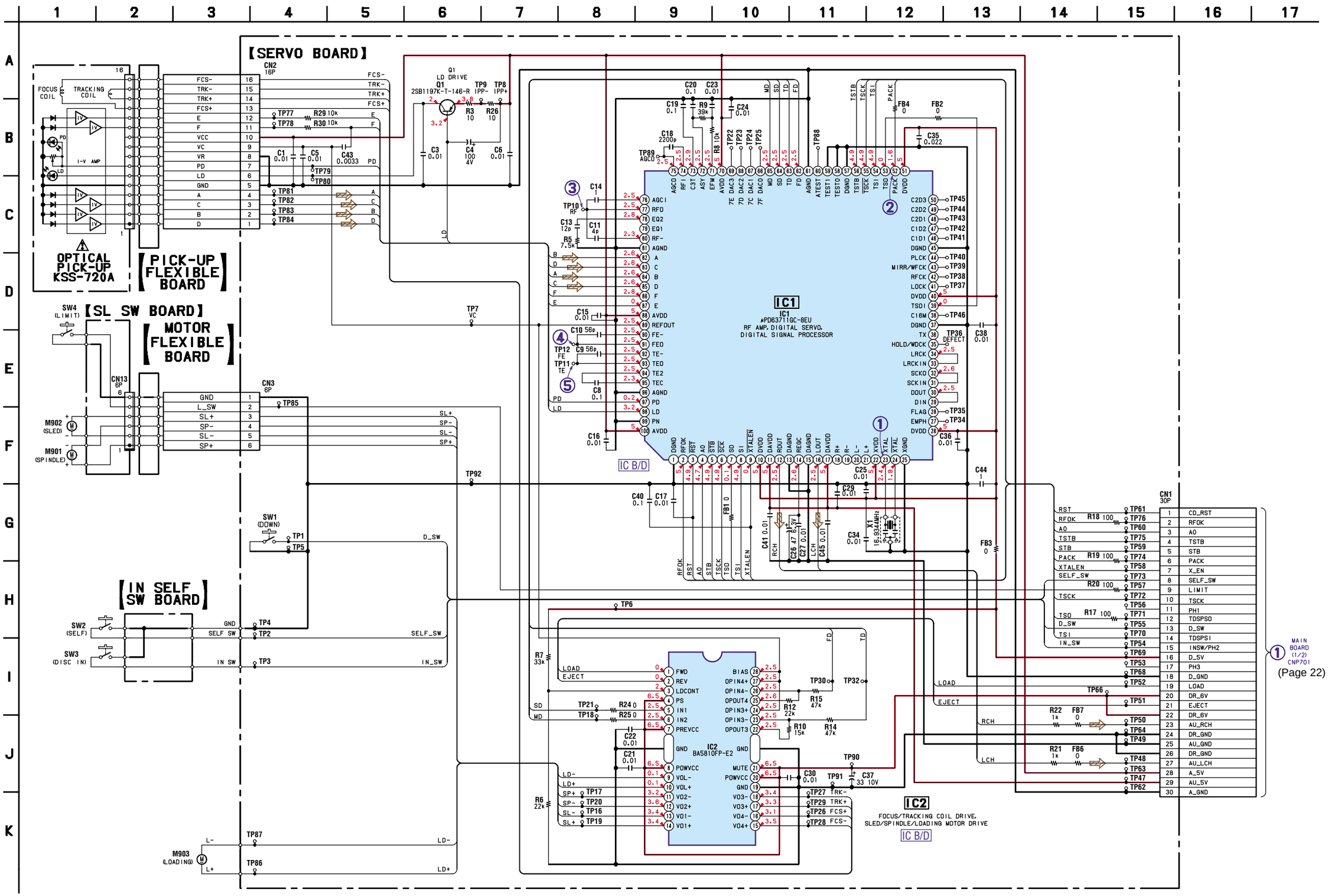
1-683-282- 11 (11)

1-683-949- 11 (11)

• Refer to page 17 for Waveforms.

## 3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION —

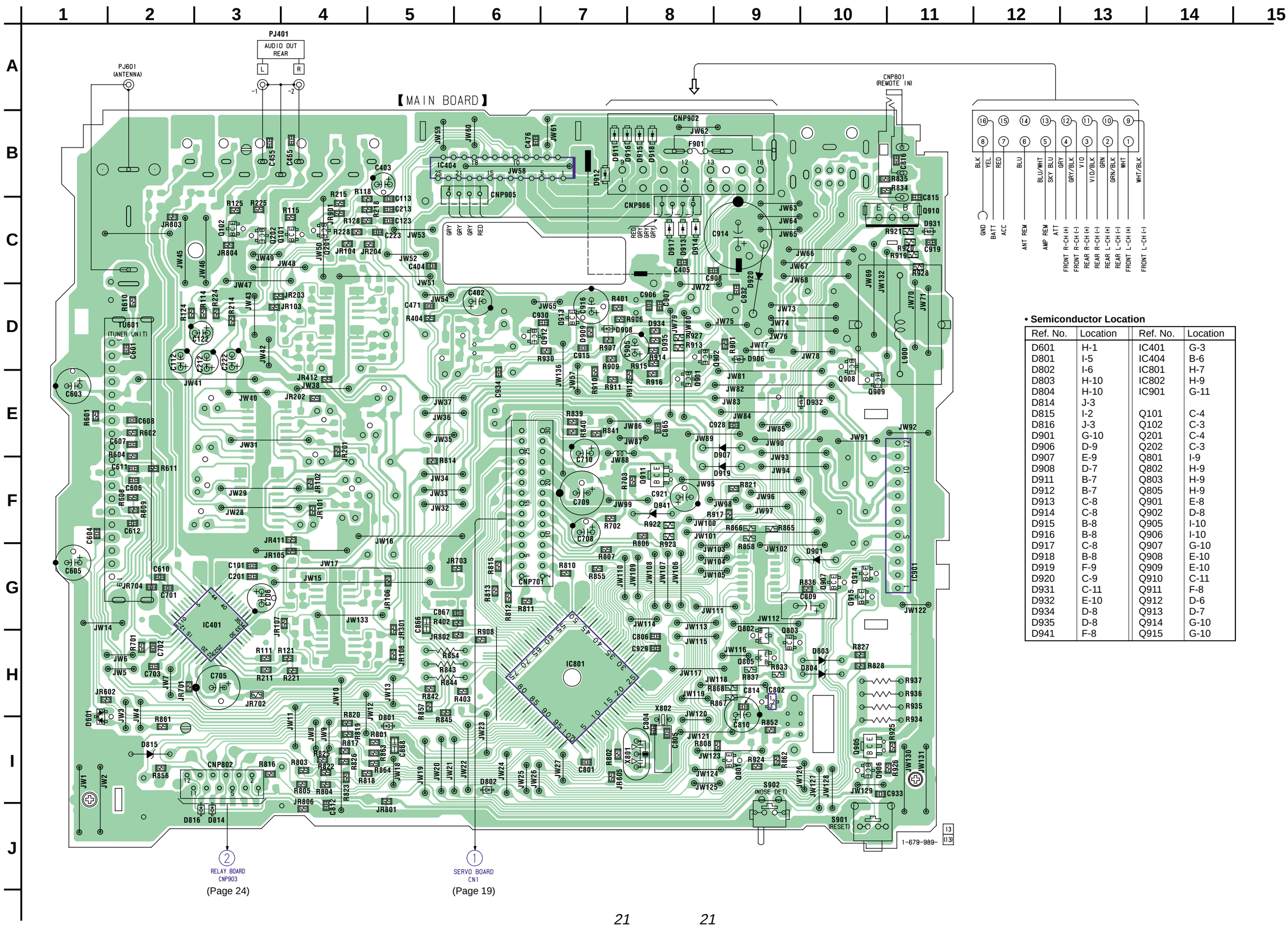
• Refer to page 28 for IC Block Diagrams.




**Note:**

- Voltage is dc with respect to ground under no-signal conditions.
  no mark : CD PLAY

**3-8. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 17 for Circuit Boards Location.**




• **Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D601 | H-1 | IC401 | G-3 |
| D801 | I-5 | IC404 | B-6 |
| D802 | I-6 | IC801 | H-7 |
| D803 | H-10 | IC802 | H-9 |
| D804 | H-10 | IC901 | G-11 |
| D814 | J-3 | | |
| D815 | I-2 | Q101 | C-4 |
| D816 | J-3 | Q102 | C-3 |
| D901 | G-10 | Q201 | C-4 |
| D906 | D-9 | Q202 | C-3 |
| D907 | E-9 | Q801 | I-9 |
| D908 | D-7 | Q802 | H-9 |
| D911 | B-7 | Q803 | H-9 |
| D912 | B-7 | Q805 | H-9 |
| D913 | C-8 | Q901 | E-8 |
| D914 | C-8 | Q902 | D-8 |
| D915 | B-8 | Q905 | I-10 |
| D916 | B-8 | Q906 | I-10 |
| D917 | C-8 | Q907 | G-10 |
| D918 | B-8 | Q908 | E-10 |
| D919 | F-9 | Q909 | E-10 |
| D920 | C-9 | Q910 | C-11 |
| D931 | C-11 | Q911 | F-8 |
| D932 | E-10 | Q912 | D-6 |
| D934 | D-8 | Q913 | D-7 |
| D935 | D-8 | Q914 | G-10 |
| D941 | F-8 | Q915 | G-10 |

• Refer to page 17 for Waveforms.
• Refer to page 29 for IC Block Diagrams.

## 3-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —

【MAIN BOARD】(1/2)

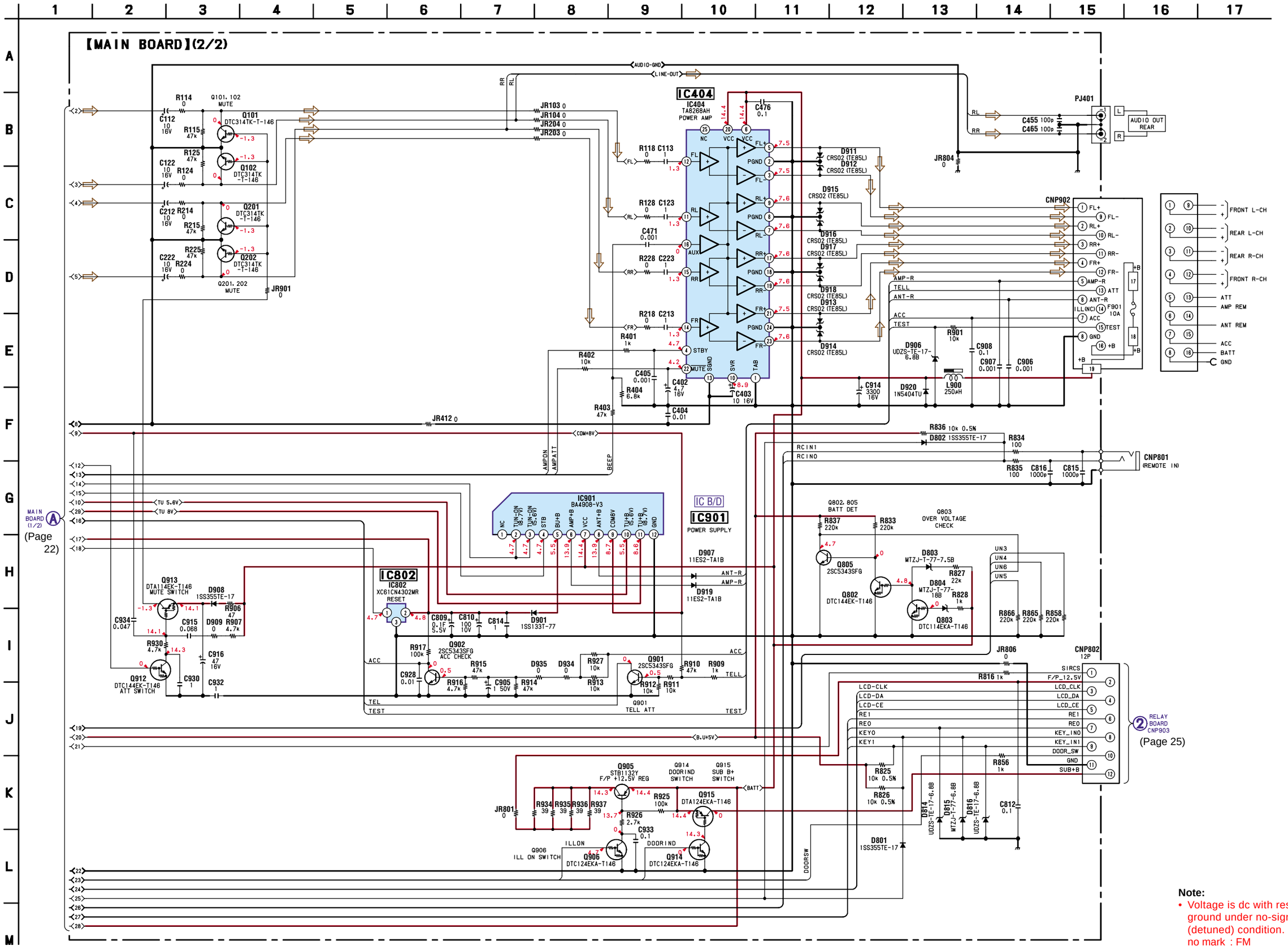
**Note:**
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM
  < > : CD PLAY

IC B/D

(Page 20)
SERVO BOARD CN1

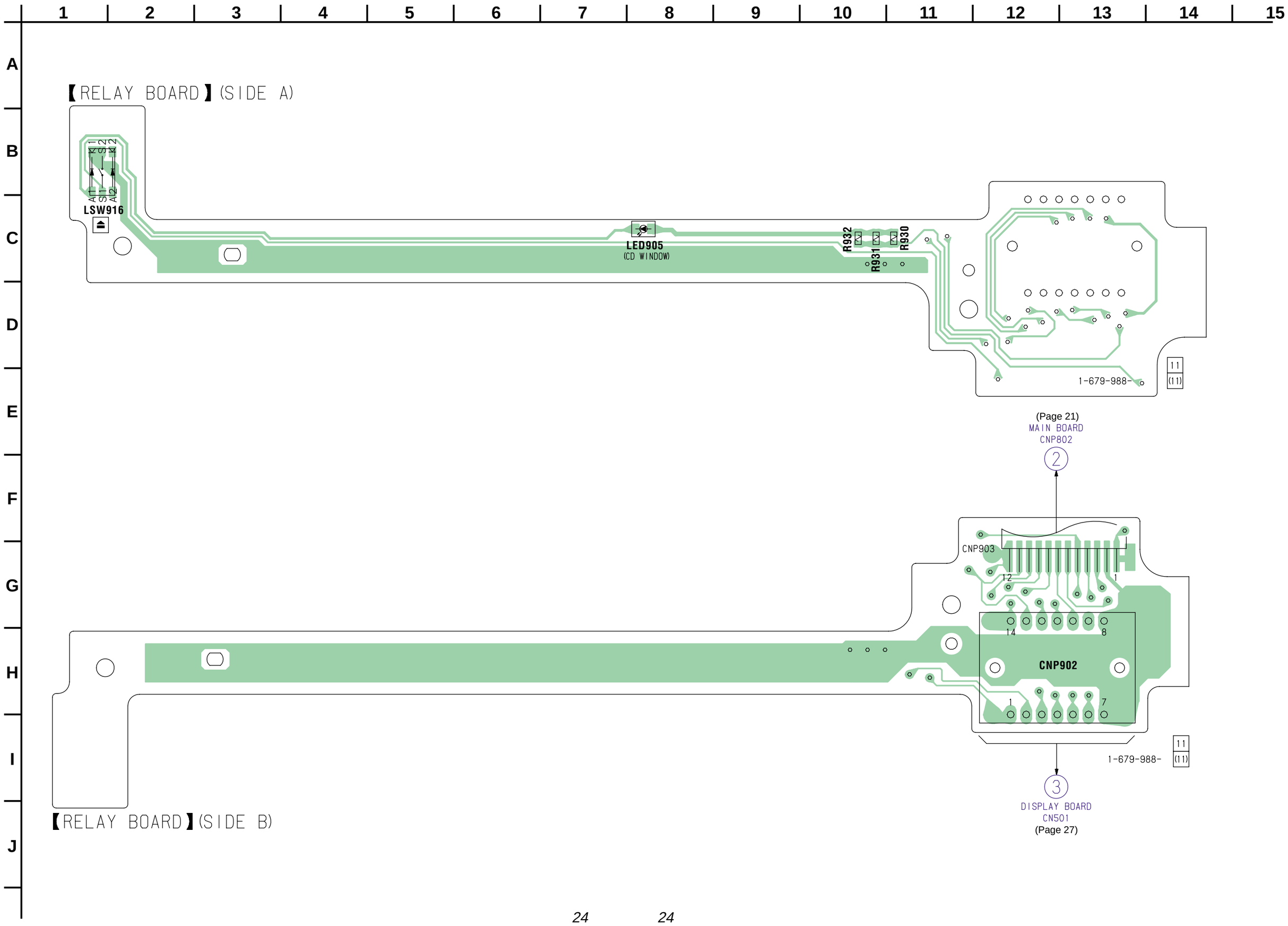
(Page 23)

### 3-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 28 for IC Block Diagrams.

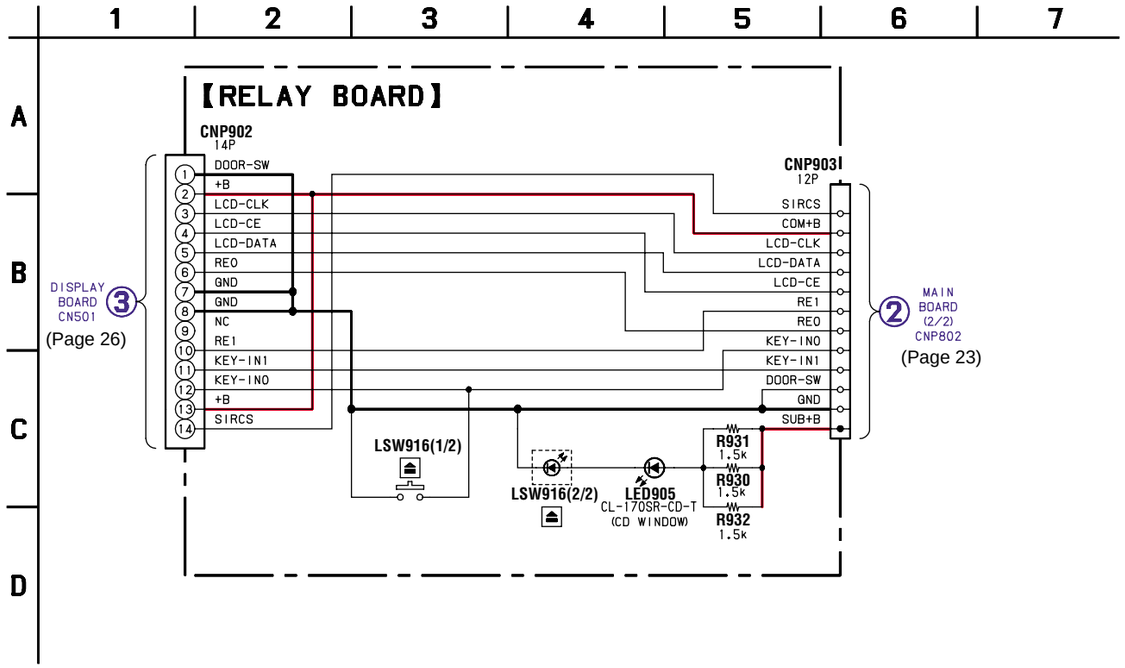



**Note:**
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

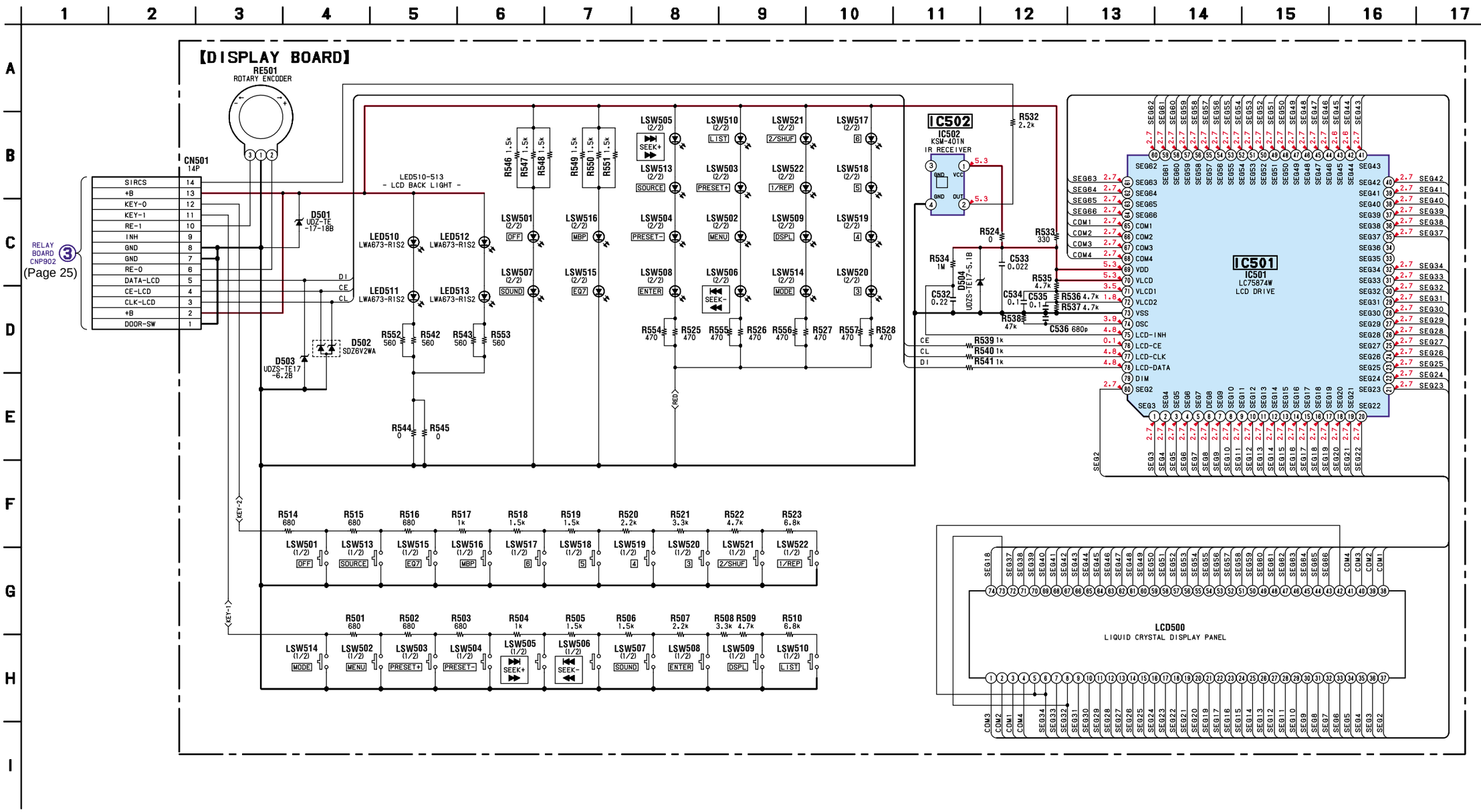
**3-11. PRINTED WIRING BOARD — RELAY SECTION — • Refer to page 17 for Circuit Boards Location.**



### 3-12. SCHEMATIC DIAGRAM — RELAY SECTION —



### 3-13. SCHEMATIC DIAGRAM — DISPLAY SECTION —

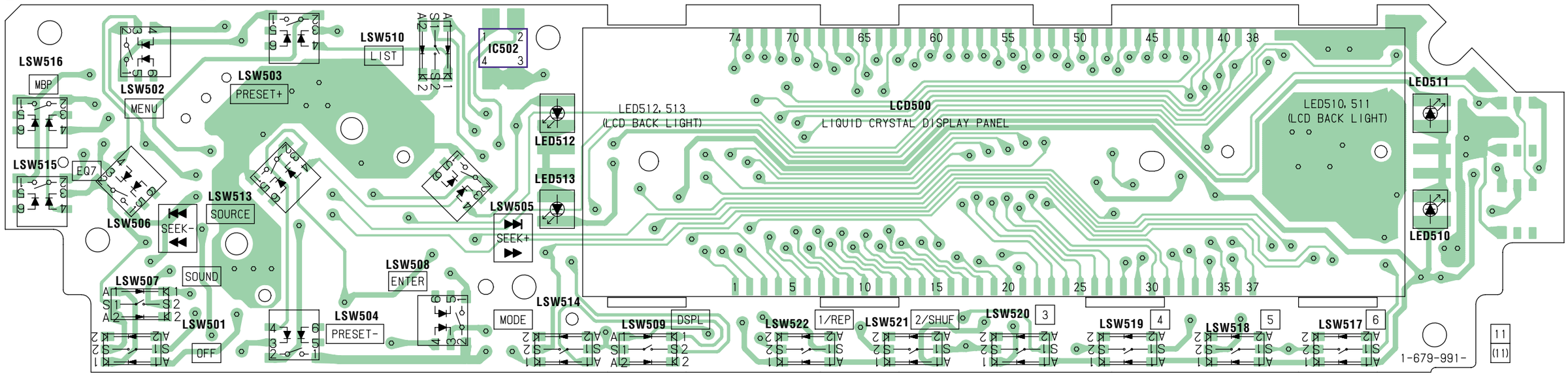


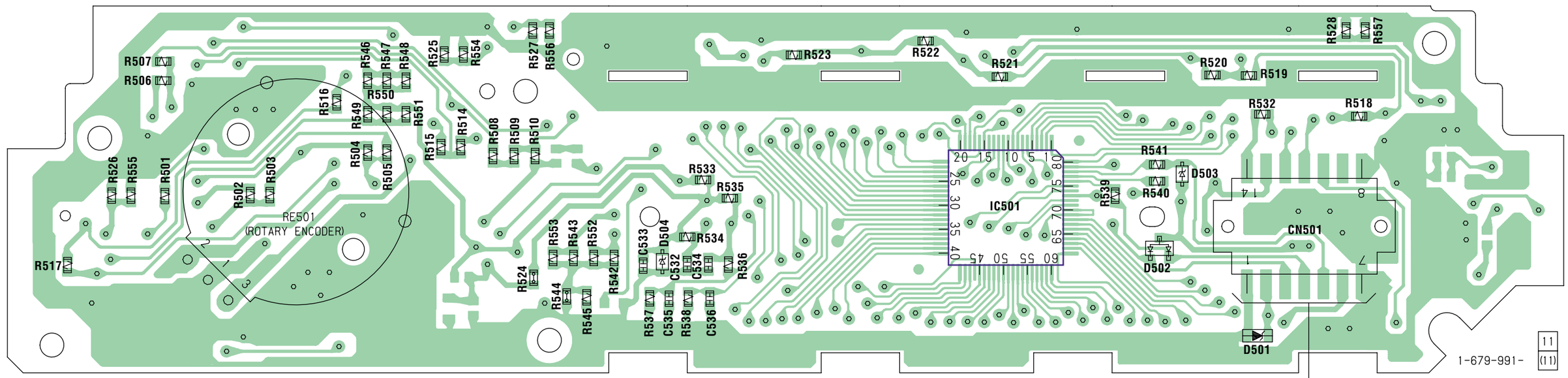

**Note:**

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

**3-14. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 17 for Circuit Boards Location.**

【DISPLAY BOARD】(SIDE A)




【DISPLAY BOARD】(SIDE B)

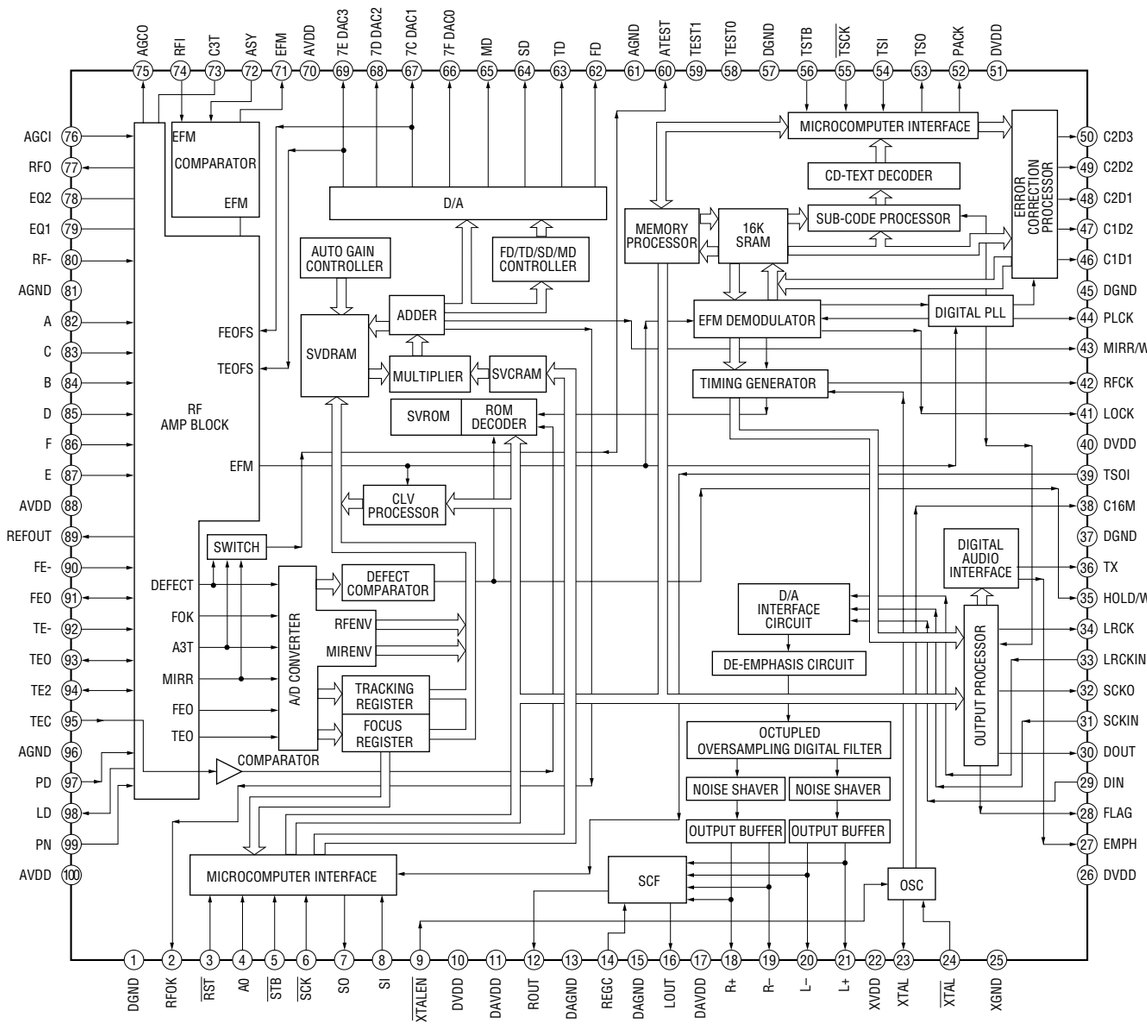
**• Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D501 | I-13 | IC502 | B-6 |
| D502 | H-12 | | |
| D503 | G-12 | LED510 | C-14 |
| D504 | H-7 | LED511 | B-14 |
| | | LED512 | B-6 |
| IC501 | H-10 | LED513 | C-6 |

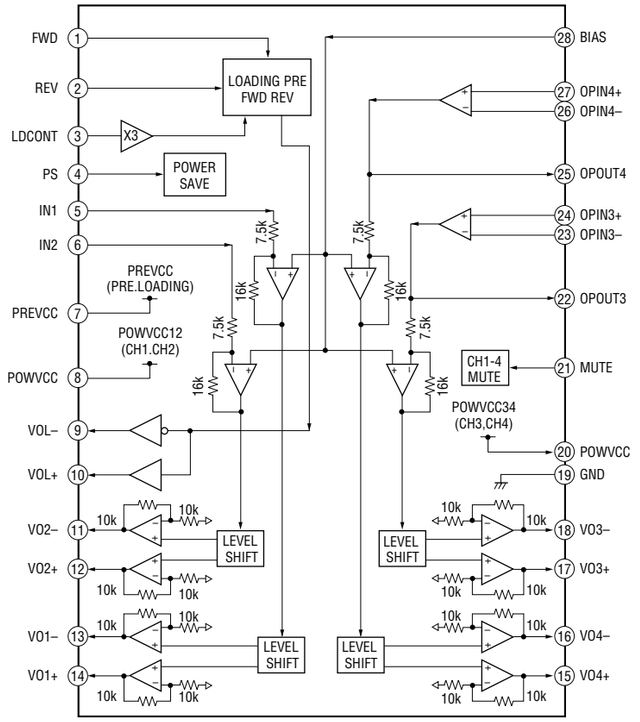
③
RELAY BOARD
CNP902
(Page 24)

## • IC BLOCK DIAGRAMS

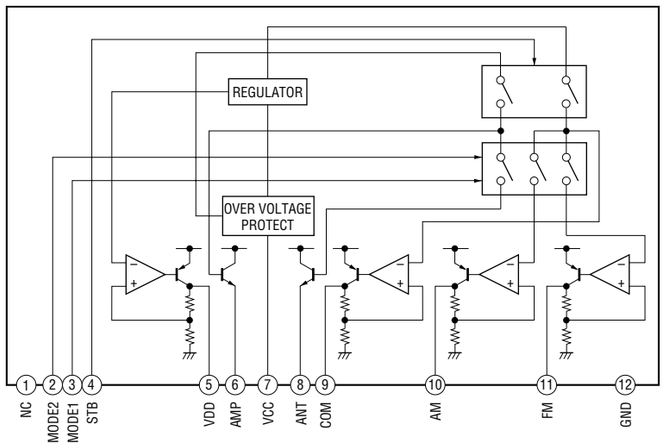
### IC1 µPD63711GC-8EU



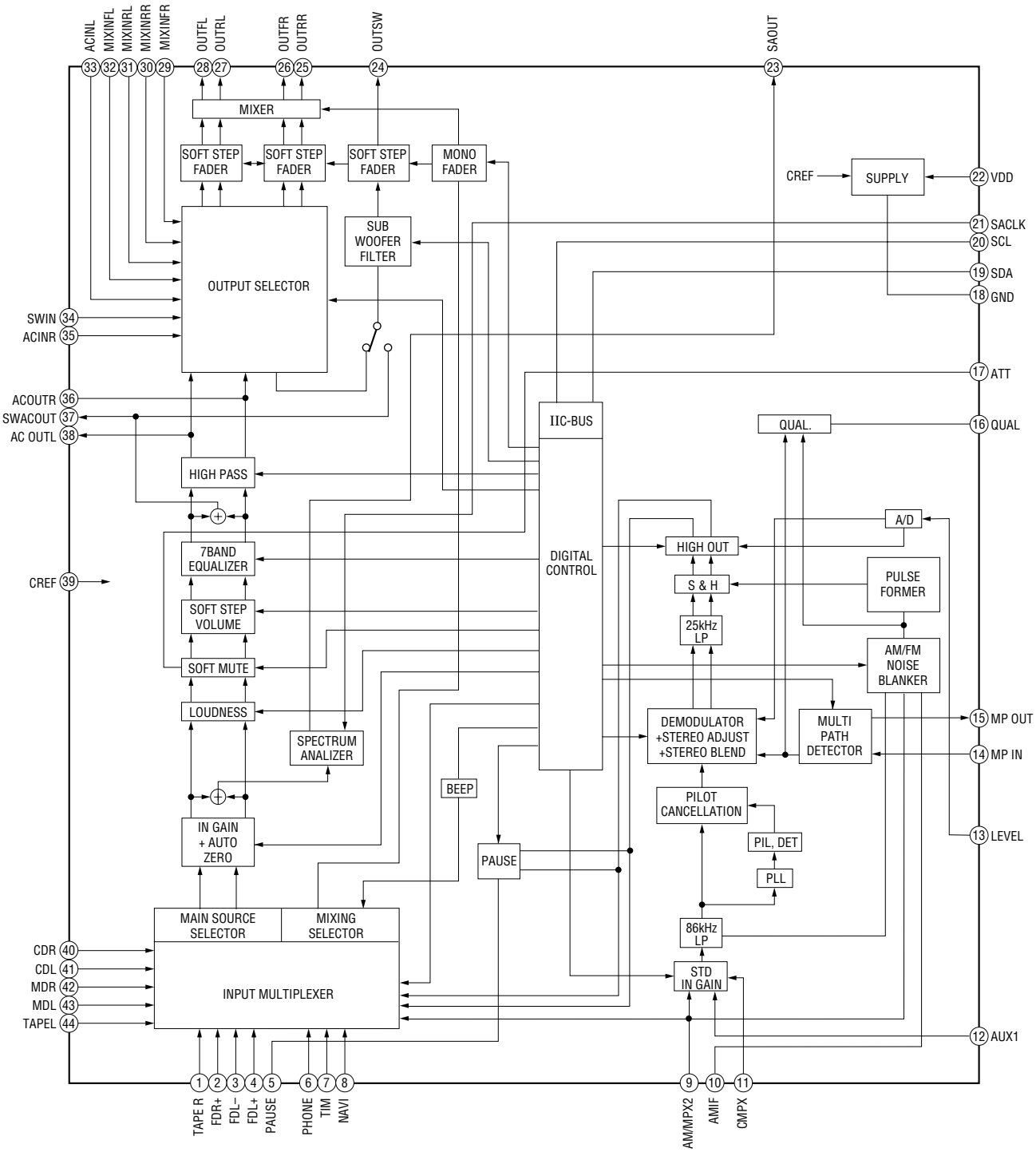

### IC2 BA5810FP-E2




### IC901 BA4908-V3



## IC401 TDA7406T



# SECTION 4
# EXPLODED VIEWS

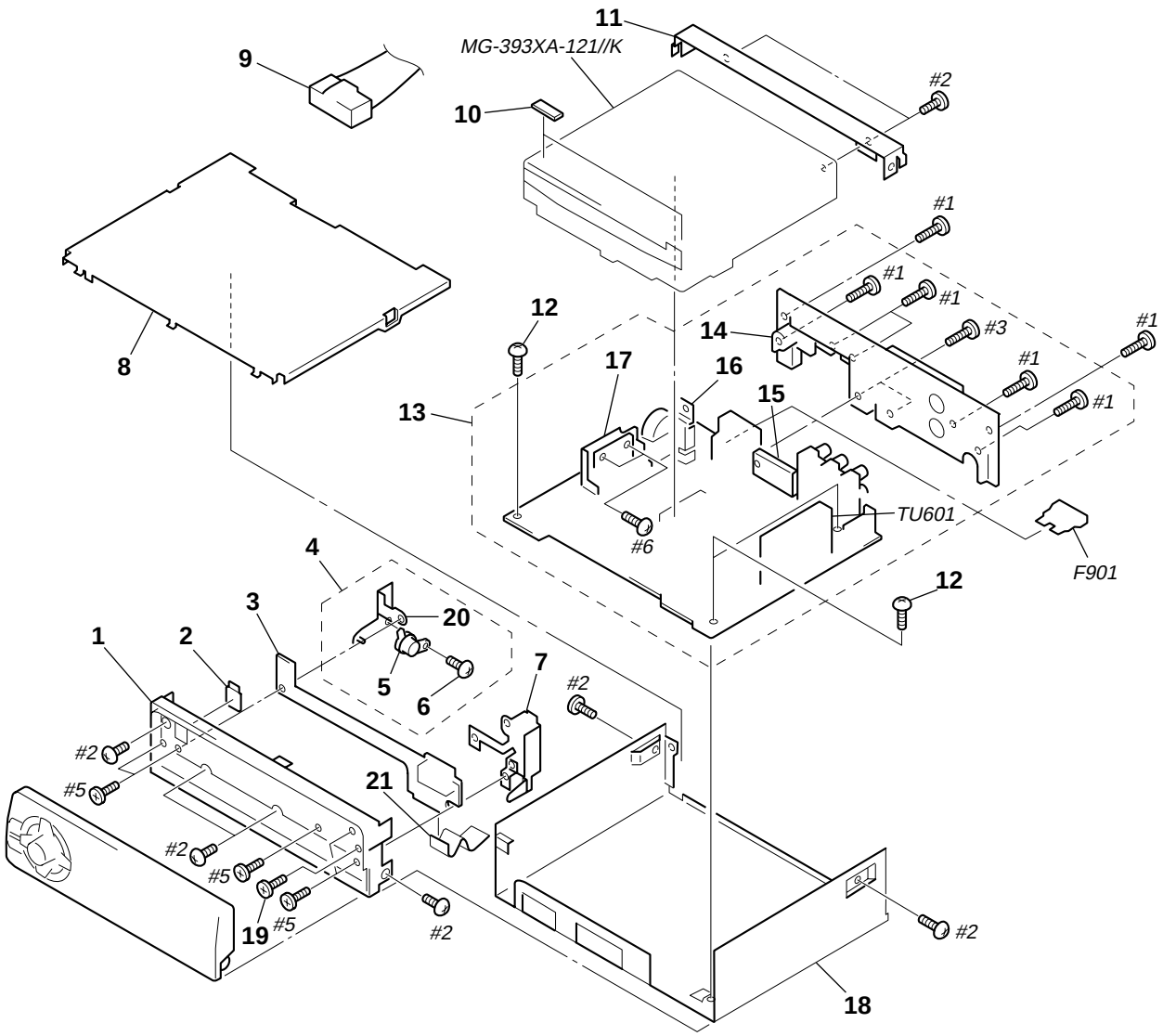
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

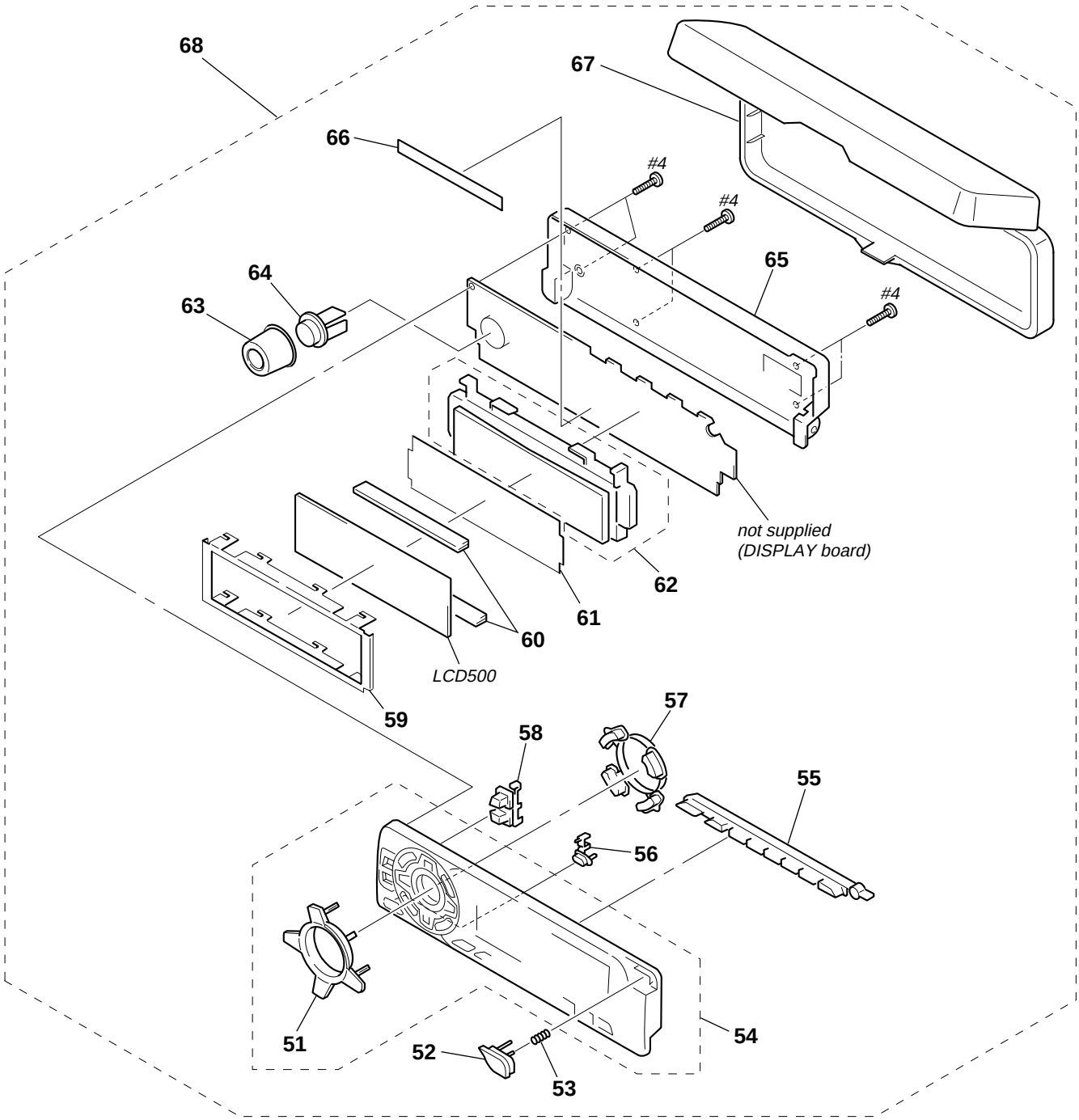
## 4-1. CHASSIS SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | X-3380-007-1 | PANEL ASSY (CD), SUB | |
| 2 | 3-041-039-02 | BUTTON (EJECT) | |
| * 3 | 1-679-988-11 | RELAY BOARD | |
| 4 | X-3376-686-4 | GEAR ASSY | |
| 5 | 3-030-909-03 | DAMPER, OIL | |
| 6 | 3-713-786-51 | SCREW +P 2X3 | |
| 7 | X-3376-687-2 | LOCK ASSY | |
| * 8 | 3-224-309-02 | COVER | |
| 9 | 1-776-207-82 | CORD (WITH CONNECTOR) (POWER) | |
| * 10 | 3-024-285-01 | CUSHION (RUBBER) | |
| * 11 | 3-041-173-02 | BRACKET (CD) | |
| 12 | 3-922-535-11 | SCREW (+BTT) | |
| 13 | A-3340-257-A | MAIN BOARD, COMPLETE | |
| 14 | 3-230-021-01 | HEAT SINK (MAIN) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 15 | 3-019-565-01 | BRACKET (IC) | |
| 16 | 3-041-261-11 | BRACKET (TR) | |
| * 17 | 3-224-313-01 | HEAT SINK (REG) | |
| * 18 | 3-224-308-01 | CHASSIS | |
| 19 | 3-035-250-02 | SCREW (LOCK) | |
| * 20 | X-3376-689-2 | BRACKET (GEAR) ASSY | |
| 21 | 1-792-173-11 | CABLE, FLAT (FFC) 12P (CNP903) | |
| F901 | 1-532-877-11 | FUSE (BLADE TYPE) (AUTO FUSE) 10A | |
| TU601 | A-3220-812-A | TUNER UNIT (TUX-020) | |
| #1 | 7-685-793-09 | SCREW +PTT 2.6X8 (S) | |
| #2 | 7-685-792-09 | SCREW +PTT 2.6X6 (S) | |
| #3 | 7-685-795-09 | SCREW +PTT 2.6X12 (S) | |
| #5 | 7-621-772-20 | SCREW +B 2X5 | |
| #6 | 7-685-535-19 | SCREW +BTP 2.6X10 TYPE2 N-S | |

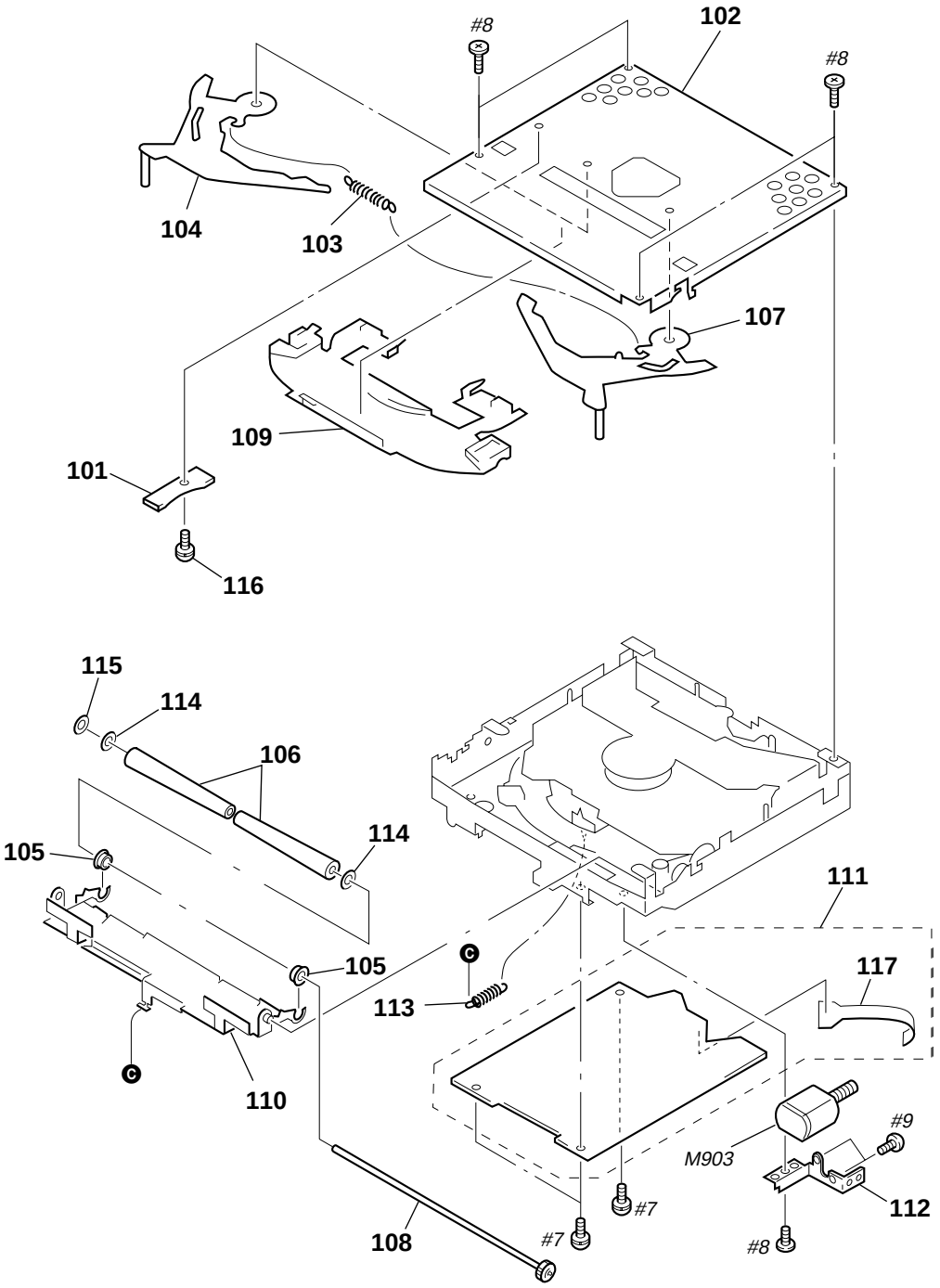
## 4-2. FRONT PANEL SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 3-224-293-31 | BUTTON (CROSS) | |
| 52 | 3-224-300-01 | BUTTON (OPEN) (L600X) | |
| 52 | 3-224-300-11 | BUTTON (OPEN) (L630X) | |
| 53 | 3-038-318-01 | SPRING (RELEASE) | |
| 54 | X-3381-489-1 | PANEL (S) ASSY, FRONT (L600X) | |
| 54 | X-3381-493-1 | PANEL (S) ASSY, FRONT (L630X) | |
| 55 | 3-224-299-02 | BUTTON (1-6) | |
| 56 | 3-224-298-01 | BUTTON (OFF) | |
| 57 | 3-224-297-01 | BUTTON (MENU) | |
| 58 | 3-224-296-01 | BUTTON (EQ) | |
| * 59 | 3-224-306-01 | PLATE (LCD), GROUND | |
| 60 | 1-694-787-11 | CONDUCTIVE BOARD, CONNECTION | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 61 | 3-224-307-02 | SHEET (DIFFUSION) | |
| * 62 | X-3379-981-1 | HOLDER (LCD) ASSY | |
| 63 | 3-224-292-01 | KNOB (VOL) (L600X) | |
| 63 | 3-224-292-11 | KNOB (VOL) (L630X) | |
| 64 | 3-224-295-01 | BUTTON (SOURCE) | |
| 65 | X-3379-982-1 | PANEL ASSY, FRONT BACK | |
| 66 | 3-925-745-01 | CUSHION | |
| 67 | X-3378-390-3 | CASE ASSY (for FRONT PANEL) | |
| 68 | A-3337-012-A | PANEL COMPLETE ASSY, FRONT (L630X) | |
| 68 | A-3337-014-A | PANEL COMPLETE ASSY, FRONT (L600X) | |
| LCD500 | 1-804-294-21 | DISPLAY PANEL, LIQUID CRYSTAL | |
| #4 | 7-685-106-19 | SCREW +P 2X10 TYPE2 NON-SLIT | |

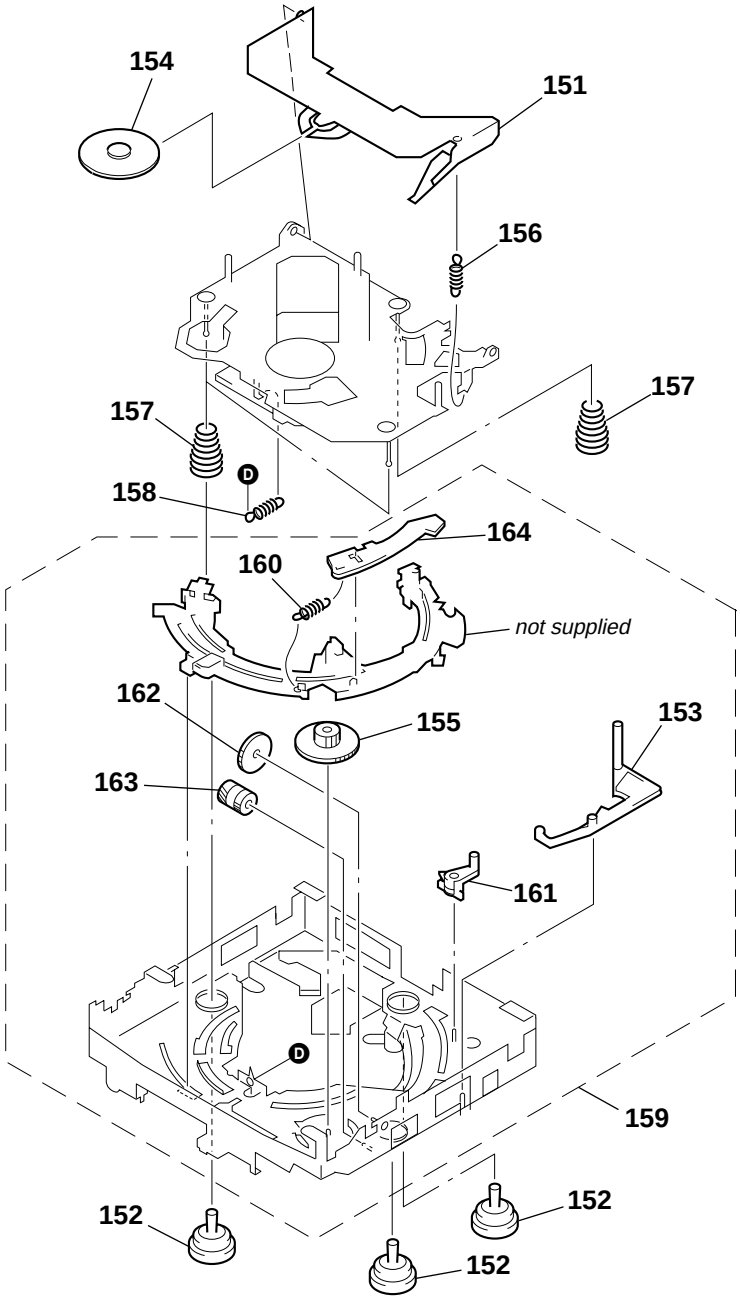
### 4-3. CD MECHANISM SECTION (1)
### (MG-393XA-121//K)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | 1-683-283-11 | IN SELF SW BOARD | |
| 102 | 3-040-039-02 | CHASSIS (T) | |
| 103 | 3-040-038-01 | SPRING (LR), TENSION | |
| 104 | 3-040-050-01 | LEVER (L) | |
| 105 | 3-040-022-01 | RETAINER (ROLLER), SHAFT | |
| 106 | 3-040-044-01 | ROLLER (S) | |
| 107 | 3-040-067-01 | LEVER (R) | |
| 108 | A-3301-980-A | SHAFT ROLLER ASSY | |
| 109 | 3-040-037-01 | GUIDE (DISC) | |
| 110 | 3-040-040-02 | ARM (ROLLER) | |
| 111 | A-3283-233-A | SERVO BOARD, COMPLETE | |

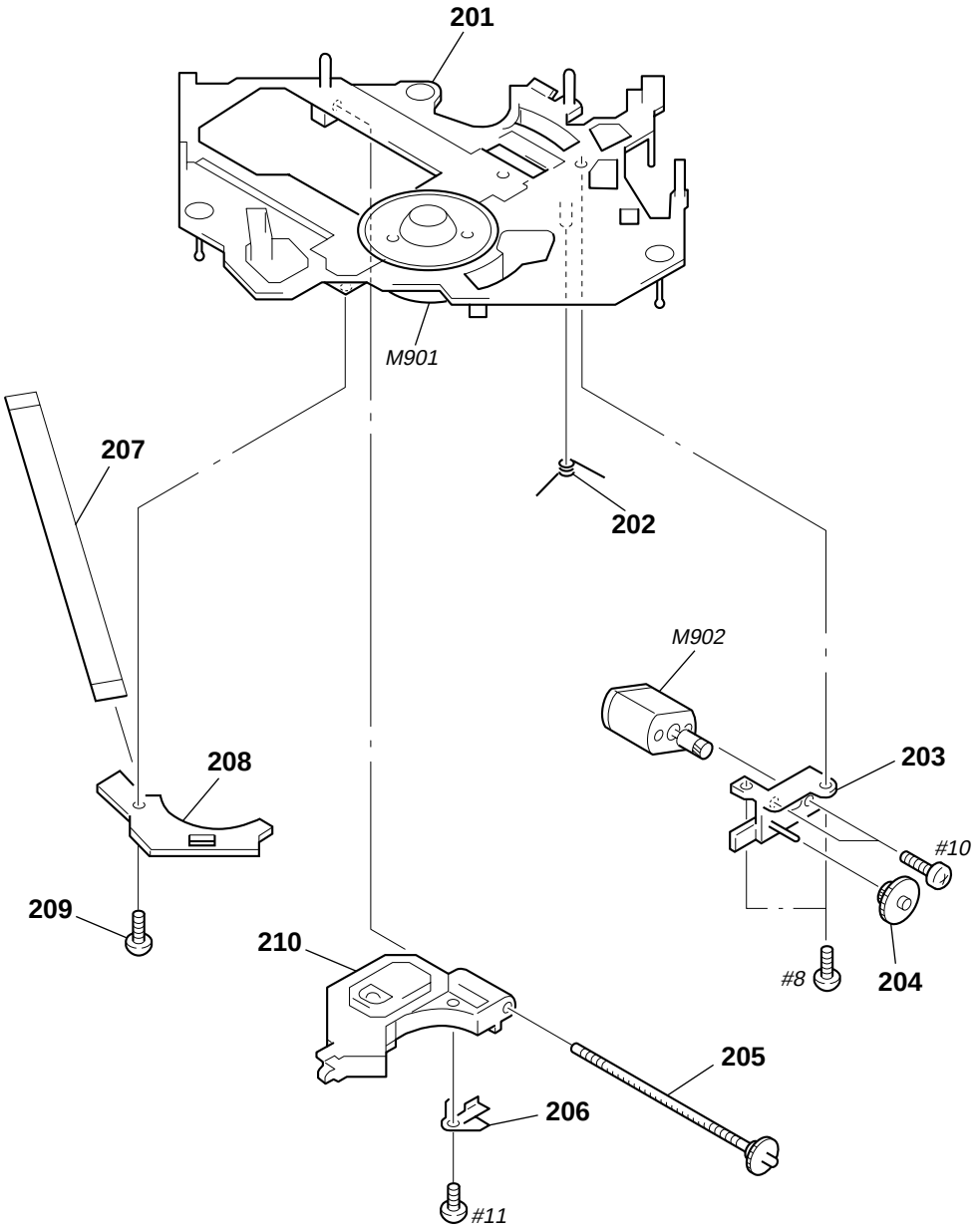
| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 112 | 3-221-779-01 | BRACKET (MOTOR) | |
| 113 | 3-040-034-01 | SPRING (RA), TENSION | |
| 114 | 3-040-042-01 | WASHER | |
| 115 | 3-043-880-01 | RING (RA), RETAINING | |
| 116 | 3-044-206-11 | SCREW, SPECIAL | |
| 117 | 1-683-284-11 | FLEXIBLE BOARD | |
| M903 | A-3315-039-A | MOTOR SUB ASSY, LO (LOADING) | |
| #7 | 7-628-253-00 | SCREW, SPECIAL | |
| #8 | 7-627-553-37 | SCREW, PRECISION +P 2X3 TYPE3 | |
| #9 | 7-627-553-17 | SCREW, PRECISION +P 2X2 TYPE3 | |

### 4-4. CD MECHANISM SECTION (2)
### (MG-393XA-121//K)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | 3-040-025-01 | ARM, CHUCKING | |
| 152 | 3-040-031-01 | DAMPER (T) | |
| 153 | 3-040-056-01 | LEVER (D) | |
| 154 | 3-040-024-01 | RETAINER (DISC) | |
| 155 | 3-040-054-01 | WHEEL (LW), WORM | |
| 156 | 3-040-026-01 | SPRING (CH), TENSION | |
| 157 | 3-040-032-01 | SPRING (FL), COMPRESSION | |
| 158 | 3-040-033-01 | SPRING (KF1), TENSION | |
| 159 | A-3307-422-A | CHASSIS (M) COMPLETE ASSY | |
| 160 | 3-040-059-01 | SPRING (TR), TENSION | |
| 161 | 3-040-057-01 | LEVER (LOCK) | |
| 162 | 3-040-058-01 | GEAR (MDL) | |
| 163 | 3-040-052-01 | WHEEL (U), WORM | |
| 164 | 3-040-051-02 | LEVER (TR) | |

## 4-5. CD MECHANISM SECTION (3)
## (MG-393XA-121//K)




| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une piéce portant le numéro spécifié. |
|---|---|

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 201 | X-3378-480-1 | CHASSIS (OP) ASSY (including M901) | |
| 202 | 3-040-029-01 | SPRING (SL), TORSION | |
| 203 | 3-040-045-01 | BASE (DRIVING) | |
| 204 | 3-040-194-01 | GEAR (MIDWAY) | |
| 205 | A-3301-983-A | SHAFT (FEED) ASSY | |
| 206 | 3-040-030-01 | SPRING (FEED), PLATE | |
| 207 | 1-823-641-11 | CABLE, FLEXIBLE FLAT (6 CORE) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 208 | 1-683-282-11 | SL SW BOARD | |
| 209 | 3-909-607-01 | SCREW | |
| ⚠210 | 8-820-103-11 | PICK-UP, OPTICAL KSS-720A/C-RP | |
| M902 | A-3301-985-A | MOTOR ASSY, SLED (SLED) | |
| #8 | 7-627-553-37 | SCREW, PRECISION +P 2X3 TYPE3 | |
| #10 | 7-627-850-28 | SCREW, PRECISION +P 1.4X3 | |
| #11 | 7-685-780-01 | SCREW +PTT 2X3 (S) | |

# SECTION 5
# ELECTRICAL PARTS LIST

**DISPLAY**

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | DISPLAY BOARD | | | |
| | | ********** | | | |
| | 1-694-787-11 | CONDUCTIVE BOARD, CONNECTION | | | |
| * | 3-224-306-01 | PLATE (LCD), GROUND | | | |
| * | 3-224-307-02 | SHEET (DIFFUSION) | | | |
| * | X-3379-981-1 | HOLDER (LCD) ASSY | | | |
| | | < CAPACITOR > | | | |
| C532 | 1-115-467-11 | CERAMIC CHIP | 0.22uF | 10% | 10V |
| C533 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C534 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C535 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C536 | 1-162-963-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| | | < CONNECTOR > | | | |
| CN501 | 1-794-065-12 | PLUG, CONNECTOR 14P | | | |
| | | < DIODE > | | | |
| D501 | 8-719-056-93 | DIODE UDZ-TE-17-18B | | | |
| D502 | 8-719-068-68 | DIODE SDZ6V2WA | | | |
| D503 | 8-719-069-56 | DIODE UDZS-TE17-6.2B | | | |
| D504 | 8-719-069-54 | DIODE UDZS-TE17-5.1B | | | |
| | | < IC > | | | |
| IC501 | 8-759-826-21 | IC LC75874W | | | |
| IC502 | 8-749-017-35 | IC KSM-401N | | | |
| | | < LIQUID CRYSTAL DISPLAY > | | | |
| LCD500 | 1-804-294-21 | DISPLAY PANEL, LIQUID CRYSTAL | | | |
| | | < DIODE > | | | |
| LED510 | 8-719-078-19 | LED LWA673-R1S2*1 (LCD BACK LIGHT) | | | |
| LED511 | 8-719-078-19 | LED LWA673-R1S2*1 (LCD BACK LIGHT) | | | |
| LED512 | 8-719-078-19 | LED LWA673-R1S2*1 (LCD BACK LIGHT) | | | |
| LED513 | 8-719-078-19 | LED LWA673-R1S2*1 (LCD BACK LIGHT) | | | |
| | | < SWITCH > | | | |
| LSW501 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (OFF) | | | |
| LSW502 | 1-771-476-11 | SWITCH, KEYBOARD (WITH LED) (MENU) | | | |
| LSW503 | 1-771-476-11 | SWITCH, KEYBOARD (WITH LED) (PRESET +) | | | |
| LSW504 | 1-771-476-11 | SWITCH, KEYBOARD (WITH LED) (PRESET –) | | | |
| LSW505 | 1-771-476-11 | SWITCH, KEYBOARD (WITH LED) (▶▶I SEEK + ▶▶) | | | |
| LSW506 | 1-771-476-11 | SWITCH, KEYBOARD (WITH LED) (I◀◀ SEEK – ◀◀) | | | |
| LSW507 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (SOUND) | | | |
| LSW508 | 1-771-476-11 | SWITCH, KEYBOARD (WITH LED) (ENTER) | | | |
| LSW509 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (DSPL) | | | |
| LSW510 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (LIST) | | | |
| LSW513 | 1-771-476-11 | SWITCH, KEYBOARD (WITH LED) (SOURCE) | | | |
| LSW514 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (MODE) | | | |
| LSW515 | 1-771-476-11 | SWITCH, KEYBOARD (WITH LED) (EQ7) | | | (L600X) |
| LSW515 | 1-771-500-21 | SWITCH, KEYBOARD (WITH LED) (EQ7) | | | (L630X) |
| LSW516 | 1-771-476-11 | SWITCH, KEYBOARD (WITH LED) (MBP) | | | (L600X) |
| LSW516 | 1-771-500-21 | SWITCH, KEYBOARD (WITH LED) (MBP) | | | (L630X) |
| LSW517 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (6) | | | |
| LSW518 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (5) | | | |
| LSW519 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (4) | | | |
| LSW520 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (3) | | | |
| LSW521 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (2/SHUF) | | | |
| LSW522 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (1/REP) | | | |
| | | < RESISTOR > | | | |
| R501 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/16W |
| R502 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/16W |
| R503 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/16W |
| R504 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R505 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R506 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R507 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R508 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W |
| R509 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R510 | 1-218-867-11 | RES-CHIP | 6.8K | 5% | 1/16W |
| R514 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/16W |
| R515 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/16W |
| R516 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/16W |
| R517 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R518 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R519 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R520 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R521 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/16W |
| R522 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R523 | 1-218-867-11 | RES-CHIP | 6.8K | 5% | 1/16W |
| R524 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |

**DISPLAY** | **IN SELF SW** | **MAIN**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R525 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| R526 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| R527 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| R528 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| R532 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R533 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/16W |
| R534 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/16W |
| R535 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R536 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R537 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R538 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R539 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R540 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R541 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R542 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/16W |
| R543 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/16W |
| R544 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R546 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R547 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R548 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R549 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R550 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R551 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R552 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/16W |
| R553 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/16W |
| R554 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| R555 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| R556 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| R557 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/16W |
| | | < ROTARY ENCODER > | | | |
| RE501 | 1-477-144-11 | ENCODER, ROTARY | | | |

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| | | | | | |
|---|---|---|---|---|---|
| | 1-683-283-11 | IN SELF SW BOARD | | | |
| | | ********** | | | |
| | | < SWITCH > | | | |
| SW2 | 1-529-566-31 | SWITCH, PUSH (1 KEY) (SELF) | | | |
| SW3 | 1-529-566-31 | SWITCH, PUSH (1 KEY) (DISC IN) | | | |

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| | | | | | |
|---|---|---|---|---|---|
| | A-3340-257-A | MAIN BOARD, COMPLETE | | | |
| | | ********** | | | |
| * | 3-019-565-01 | BRACKET (IC) | | | |
| | 3-041-261-11 | BRACKET (TR) | | | |
| | 3-230-021-01 | HEAT SINK (MAIN) | | | |
| * | 3-224-313-01 | HEAT SINK (REG) | | | |
| | 7-685-535-19 | SCREW +BTP 2.6X10 TYPE2 N-S | | | |
| | 7-685-793-09 | SCREW +PTT 2.6X8 (S) | | | |
| | 7-685-795-09 | SCREW +PTT 2.6X12 (S) | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < CAPACITOR > | | | |
| C101 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C112 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C113 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C122 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C123 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C201 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C212 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C213 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C222 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C223 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C402 | 1-124-259-11 | ELECT | 4.7uF | 20% | 16V |
| C403 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C404 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C405 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C455 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C465 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C471 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C476 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C601 | 1-162-918-11 | CERAMIC CHIP | 18PF | 5% | 50V |
| C603 | 1-104-665-11 | ELECT | 100uF | 20% | 10V |
| C604 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C605 | 1-104-665-11 | ELECT | 100uF | 20% | 16V |
| C606 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C607 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C608 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C610 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C611 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C612 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C701 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C702 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C703 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C705 | 1-126-176-11 | ELECT | 220uF | 20% | 10V |
| C706 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C708 | 1-126-153-11 | ELECT | 22uF | 20% | 6.3V |
| C709 | 1-126-176-11 | ELECT | 220uF | 20% | 10V |
| C710 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C801 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V |
| C804 | 1-162-918-11 | CERAMIC CHIP | 18PF | 5% | 50V |
| C805 | 1-162-918-11 | CERAMIC CHIP | 18PF | 5% | 50V |
| C806 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C809 | 1-128-647-11 | DOUBLE LAYERS | 0.1F | | 5.5V |
| C810 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C812 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C814 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C815 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C816 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C865 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C866 | 1-163-181-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C867 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C868 | 1-163-205-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C905 | 1-126-160-11 | ELECT | 1uF | 20% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C906 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C907 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C908 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C914 | 1-135-473-21 | ELECT | 3300uF | 20% | 16V |
| C915 | 1-110-563-11 | CERAMIC CHIP | 0.068uF | 10% | 16V |
| C916 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C919 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C921 | 1-126-153-11 | ELECT | 22uF | 20% | 6.3V |
| C928 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C929 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C930 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C932 | 1-115-156-11 | CERAMIC CHIP | 1uF | | 10V |
| C933 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C934 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| | | < CONNECTOR > | | | |
| CNP701 | 1-815-260-11 | CONNECTOR, BOARD TO BOARD 30P | | | |
| CNP802 | 1-569-907-11 | SOCKET, CONNECTOR 12P | | | |
| CNP902 | 1-774-701-11 | PIN, CONNECTOR 16P | | | |
| | | < JACK > | | | |
| CNP801 | 1-764-270-21 | JACK, STEREO MINIATURE (DIA.3.5) | | | (REMOTE IN) |
| | | < DIODE > | | | |
| D601 | 8-719-056-65 | DIODE 1SS372-TE85L | | | |
| D801 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D802 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D803 | 8-719-921-63 | DIODE MTZJ-7.5B | | | |
| D804 | 8-719-110-49 | DIODE RD18ES-B2 | | | |
| D814 | 8-719-978-33 | DIODE DTZ-TT11-6.8B | | | |
| D815 | 8-719-109-97 | DIODE RD6.8ES-B2 | | | |
| D816 | 8-719-978-33 | DIODE DTZ-TT11-6.8B | | | |
| D901 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D906 | 8-719-978-33 | DIODE DTZ-TT11-6.8B | | | |
| D907 | 8-719-200-82 | DIODE 11ES2 | | | |
| D908 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D911 | 8-719-074-47 | DIODE CRS02(TE85L) | | | |
| D912 | 8-719-074-47 | DIODE CRS02(TE85L) | | | |
| D913 | 8-719-074-47 | DIODE CRS02(TE85L) | | | |
| D914 | 8-719-074-47 | DIODE CRS02(TE85L) | | | |
| D915 | 8-719-074-47 | DIODE CRS02(TE85L) | | | |
| D916 | 8-719-074-47 | DIODE CRS02(TE85L) | | | |
| D917 | 8-719-074-47 | DIODE CRS02(TE85L) | | | |
| D918 | 8-719-074-47 | DIODE CRS02(TE85L) | | | |
| D919 | 8-719-200-82 | DIODE 11ES2 | | | |
| D920 | 8-719-049-38 | DIODE 1N5404TU | | | |
| D931 | 8-719-056-84 | DIODE UDZ-TE-17-7.5B | | | |
| D932 | 8-719-978-33 | DIODE DTZ-TT11-6.8B | | | |
| D941 | 8-719-109-89 | DIODE RD5.6ES-B2 | | | |
| | | < IC > | | | |
| IC401 | 8-759-827-13 | IC TDA7406T | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| IC404 | 8-759-827-14 | IC TA8268AH | | | |
| IC801 | 6-800-079-02 | IC MN101C49KTG2 | | | |
| IC802 | 8-759-682-69 | IC XC61CN4302MR | | | |
| IC901 | 8-759-661-47 | IC BA4908-V3 | | | |
| | | < JUMPER RESISTOR > | | | |
| D909 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| D934 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| D935 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR101 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR102 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR103 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR104 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR105 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR106 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR107 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR108 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR201 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR202 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR203 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR204 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR301 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR411 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR412 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR602 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR701 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR702 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR703 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR704 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| JR801 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR802 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR803 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR804 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR805 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR806 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| JR901 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| | | < COIL > | | | |
| JW88 | 1-410-509-11 | INDUCTOR | 10uH | | |
| L900 | 1-419-476-31 | COIL, CHOKE | 250uH | | |
| | | < JACK > | | | |
| PJ401 | 1-774-698-11 | JACK, PIN 2P (AUDIO OUT REAR) | | | |
| PJ601 | 1-793-598-11 | JACK (ANTENNA) | | | |
| | | < TRANSISTOR > | | | |
| Q101 | 8-729-920-21 | TRANSISTOR DTC314TK-T-146 | | | |
| Q102 | 8-729-920-21 | TRANSISTOR DTC314TK-T-146 | | | |
| Q201 | 8-729-920-21 | TRANSISTOR DTC314TK-T-146 | | | |
| Q202 | 8-729-920-21 | TRANSISTOR DTC314TK-T-146 | | | |
| Q801 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | | | |
| Q802 | 1-801-806-11 | TRANSISTOR DTC144EKA | | | |
| Q803 | 8-729-900-53 | TRANSISTOR DTC114EK | | | |

## MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| Q805 | 8-729-049-40 | TRANSISTOR | 2SC5343SFG | | |
| Q901 | 8-729-049-40 | TRANSISTOR | 2SC5343SFG | | |
| Q902 | 8-729-049-40 | TRANSISTOR | 2SC5343SFG | | |
| Q905 | 8-729-049-43 | TRANSISTOR | STB1132Y | | |
| Q906 | 8-729-901-00 | TRANSISTOR | DTC124EK | | |
| Q907 | 8-729-900-53 | TRANSISTOR | DTC114EK | | |
| Q908 | 8-729-901-00 | TRANSISTOR | DTC124EK | | |
| Q909 | 8-729-027-31 | TRANSISTOR | DTA124EKA-T146 | | |
| Q910 | 8-729-019-00 | TRANSISTOR | 2SD2394-G | | |
| Q911 | 8-729-920-85 | TRANSISTOR | 2SD1664-QR | | |
| Q912 | 1-801-806-11 | TRANSISTOR | DTC144EKA | | |
| Q913 | 8-729-901-04 | TRANSISTOR | DTA114EK | | |
| Q914 | 8-729-901-00 | TRANSISTOR | DTC124EK | | |
| Q915 | 8-729-027-31 | TRANSISTOR | DTA124EKA-T146 | | |
| | | < RESISTOR > | | | |
| R111 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W |
| R114 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R115 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R118 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R121 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W |
| R124 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R125 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R128 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R211 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W |
| R214 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R215 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R218 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R221 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W |
| R224 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R225 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R228 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R401 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R402 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R403 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R404 | 1-218-867-11 | RES-CHIP | 6.8K | 5% | 1/16W |
| R601 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R602 | 1-218-867-11 | RES-CHIP | 6.8K | 5% | 1/16W |
| R604 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R608 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R609 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R610 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R611 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R701 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R702 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R703 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R801 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |
| R802 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/16W |
| R803 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R804 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R805 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R806 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R807 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R808 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R810 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R811 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R812 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R813 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R814 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R815 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R816 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R817 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R818 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R819 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R820 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R821 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R822 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R823 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R825 | 1-216-675-00 | METAL CHIP | 10K | 0.5% | 1/10W |
| R826 | 1-216-675-00 | METAL CHIP | 10K | 0.5% | 1/10W |
| R827 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |
| R828 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R833 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R834 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R835 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R836 | 1-216-675-00 | METAL CHIP | 10K | 0.5% | 1/10W |
| R837 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R839 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R840 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R841 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R842 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R843 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R844 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R845 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R852 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R854 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R855 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R856 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R857 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R858 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R861 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R862 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R863 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R864 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R865 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R866 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R867 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R868 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/16W |
| R901 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R906 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/16W |
| R907 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R908 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R909 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R910 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R911 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R912 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |

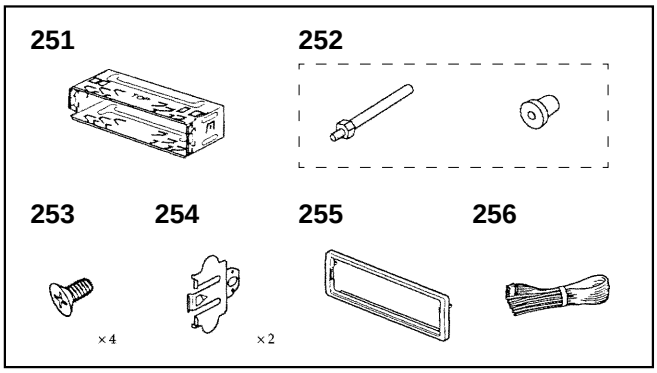
| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R913 | 1-216-073-00 | RES-CHIP | 10K | 5% | 1/10W |
| R914 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R915 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R916 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R917 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R919 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R920 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R921 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R922 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R923 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R924 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R925 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R926 | 1-216-059-00 | METAL CHIP | 2.7K | 5% | 1/10W |
| R927 | 1-216-073-00 | RES-CHIP | 10K | 5% | 1/10W |
| R928 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R930 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/16W |
| R934 | 1-249-400-11 | CARBON | 39 | 5% | 1/4W |
| R935 | 1-249-400-11 | CARBON | 39 | 5% | 1/4W |
| R936 | 1-249-400-11 | CARBON | 39 | 5% | 1/4W |
| R937 | 1-249-400-11 | CARBON | 39 | 5% | 1/4W |
| | | < SWITCH > | | | |
| S901 | 1-762-638-21 | SWITCH, TACTILE (RESET) | | | |
| S902 | 1-771-540-11 | SWITCH, PUSH (1 KEY) (NOSE DET) | | | |
| | | < TUNER > | | | |
| TU601 | A-3220-812-A | TUNER UNIT (TUX-020) | | | |
| | | < VIBRATOR > | | | |
| X801 | 1-781-822-21 | VIBRATOR, CERAMIC (18.432MHz) | | | |
| X802 | 1-567-098-41 | VIBRATOR, CRYSTAL (32.768kHz) | | | |
| ********** | | | | | |
| * | 1-679-988-11 | RELAY BOARD | | | |
| | | ********** | | | |
| | 1-792-173-11 | CABLE, FLAT (FFC) 12P (CNP903) | | | |
| | | < CONNECTOR > | | | |
| CNP902 | 1-794-064-12 | SOCKET, CONNECTOR 14P | | | |
| | | < DIODE > | | | |
| LED905 | 8-719-078-39 | LED CL-170SR-CD-T (CD WINDOW) | | | |
| | | < SWITCH > | | | |
| LSW916 | 1-771-883-11 | SWITCH, TACTILE (WITH LED) (⏏) | | | |
| | | < RESISTOR > | | | |
| R930 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R931 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| R932 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/16W |
| ********** | | | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | A-3283-233-A | SERVO BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 1-683-284-11 | FLEXIBLE BOARD | | | |
| | | < CAPACITOR > | | | |
| C1 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C3 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C4 | 1-104-609-11 | ELECT CHIP | 100uF | 20% | 4V |
| C5 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C6 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C8 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C9 | 1-162-924-11 | CERAMIC CHIP | 56PF | 5% | 50V |
| C10 | 1-162-924-11 | CERAMIC CHIP | 56PF | 5% | 50V |
| C11 | 1-162-909-11 | CERAMIC CHIP | 4PF | 0.25PF | 50V |
| C13 | 1-162-916-11 | CERAMIC CHIP | 12PF | 5% | 50V |
| C14 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C15 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C16 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C17 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C18 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C19 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C20 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C21 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C22 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C23 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C24 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C25 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C26 | 1-126-391-11 | ELECT CHIP | 4.7uF | 20% | 6.3V |
| C27 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C29 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C30 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C34 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C35 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C36 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C37 | 1-126-393-11 | ELECT CHIP | 33uF | 20% | 10V |
| C38 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C40 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C41 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C43 | 1-162-967-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C44 | 1-125-837-11 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C45 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| | | < CONNECTOR > | | | |
| CN1 | 1-815-352-11 | CONNECTOR, BOARD TO BOARD 30P | | | |
| CN3 | 1-816-275-11 | CONNECTOR, FFC/FPC 6P | | | |
| | | < JUMPER RESISTOR > | | | |
| FB1 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| FB2 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| FB3 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| FB4 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| FB6 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |

**SERVO** **SL SW**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| FB7 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| | | < IC > | | | |
| IC1 | 8-759-699-98 | IC uPD63711GC-8EU | | | |
| IC2 | 8-759-658-87 | IC BA5810FP-E2 | | | |
| | | < TRANSISTOR > | | | |
| Q1 | 8-729-904-87 | TRANSISTOR 2SB1197K-R | | | |
| | | < RESISTOR > | | | |
| R3 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/16W |
| R5 | 1-218-344-11 | RES-CHIP | 7.5K | 5% | 1/16W |
| R6 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |
| R7 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/16W |
| R8 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R9 | 1-216-840-11 | METAL CHIP | 39K | 5% | 1/16W |
| R10 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/16W |
| R12 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/16W |
| R14 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R15 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R17 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R18 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R19 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R20 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/16W |
| R21 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R22 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/16W |
| R24 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R25 | 1-216-864-11 | METAL CHIP | 0 | 5% | 1/16W |
| R26 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/16W |
| R29 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R30 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| | | < SWITCH > | | | |
| SW1 | 1-762-944-12 | SWITCH, DETECTION (SMALL TYPE) (DOWN) | | | |
| | | < VIBRATOR > | | | |
| X1 | 1-795-520-11 | VIBRATOR, CERAMIC (16.9344MHz) | | | |
| ********** | | | | | |
| | 1-683-282-11 | SL SW BOARD | | | |
| | | ********** | | | |
| | | < SWITCH > | | | |
| SW4 | 1-529-565-41 | SWITCH, PUSH (1 KEY) (LIMIT) | | | |
| ********** | | | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | MISCELLANEOUS | |
| | | ********** | |
| 9 | 1-776-207-82 | CORD (WITH CONNECTOR) (POWER) | |
| 201 | X-3378-480-1 | CHASSIS (OP) ASSY (including M901) | |
| 207 | 1-823-641-11 | CABLE, FLEXIBLE FLAT (6 CORE) | |
| ⚠210 | 8-820-103-11 | PICK-UP, OPTICAL KSS-720A/C-RP | |
| F901 | 1-532-877-11 | FUSE (BLADE TYPE) (AUTO FUSE) 10A | |
| M902 | A-3301-985-A | MOTOR ASSY, SLED (SLED) | |
| M903 | A-3315-039-A | MOTOR SUB ASSY, LO (LOADING) | |
| ********** | | | |
| | | ACCESSORIES | |
| | | ********** | |
| | 1-476-526-11 | REMOTE COMMANDER (RM-X114) | |
| | 3-230-047-01 | LID, BATTERY CASE (for RM-X114) | |
| | 3-237-611-11 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (L600X) | |
| | 3-237-612-11 | MANUAL, INSTRUCTION (ENGLISH,FRENCH) (L600X) | |
| | 3-237-619-11 | MANUAL, INSTRUCTION (ENGLISH,SPANISH) (L630X) | |
| | 3-237-620-11 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH) (L630X) | |
| | X-3378-390-3 | CASE ASSY (for FRONT PANEL) | |
| ********** | | | |
| | | PARTS FOR INSTALLATION AND CONNECTIONS | |
| | | ********** | |
| 251 | 3-014-370-21 | FRAME, FITTING | |
| 252 | X-3366-405-1 | SCREW ASSY (EXP), FITTING (L630X) | |
| 253 | 3-934-325-01 | SCREW (+K 5X8 TP) | |
| 254 | 3-030-929-04 | SPRING, FITTING | |
| 255 | 3-226-508-01 | COLLAR | |
| 256 | 1-776-207-82 | CORD (WITH CONNECTOR) (POWER) | |




| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une piéce portant le numéro spécifié. |

# CDX-L600X/L630X

SONY

# SERVICE MANUAL

Ver 1.1 2003. 08

*US Model*
*Canadian Model*
*CDX-L600X*
*E Model*
*CDX-L630X*

# SUPPLEMENT-1

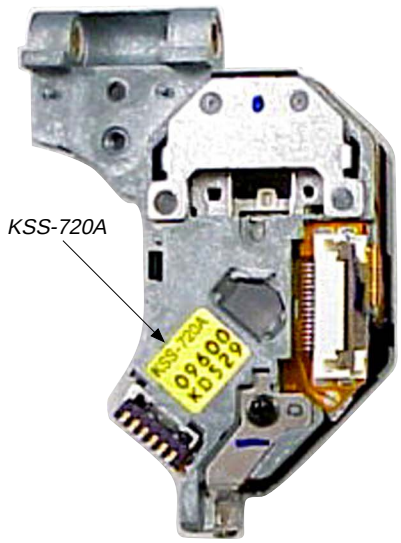
**File this supplement with the service manual.**

**Subject :** Change of CD mechanism

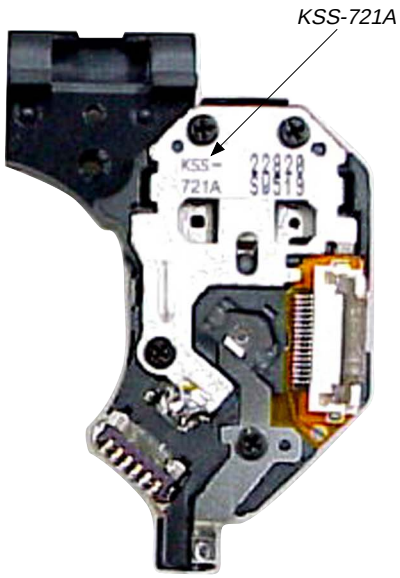
(ENG-03014)

CD mechanism changed into MG-393XC-121//K from MG-393XA-121//K in the middle of the production.
Optical pick-up block and an installation screw are changes along with this change.
Confirm an optical pick-up block pattern name when you exchange optical pick-up block.

**Discrimination**

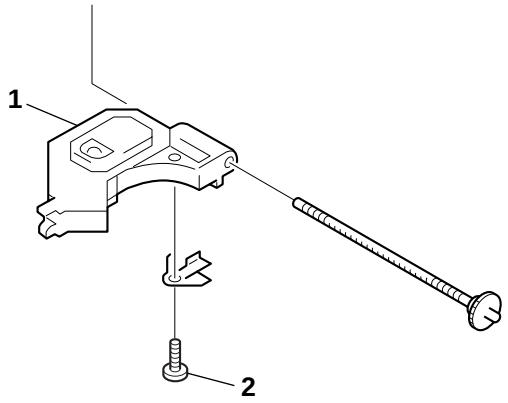



*MG-393XA-121//K*




*MG-393XC-121//K*

## Parts List




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| ⚠1 | 8-820-103-11 | OPTICAL PICK-UP KSS-720A/C-RP | |
| ⚠1 | 8-820-165-06 | OPTICAL PICK-UP KSS-721A/C-RP | |
| 2 | 7-627-553-37 | PRECISION SCREW +P 2X3 TYPE3 | (for KSS-720A) |
| 2 | 3-909-607-01 | SCREW (for KSS-721A) | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une piéce portant le numéro spécifié. |

**MEMO**

## REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

| Ver. | Date | Description of Revision |
|---|---|---|
| 1.0 | 2001. 11 | New |
| 1.1 | 2003. 08 | Change of CD mechanism (ENG-03014) |
| | | |
| | | |
| | |